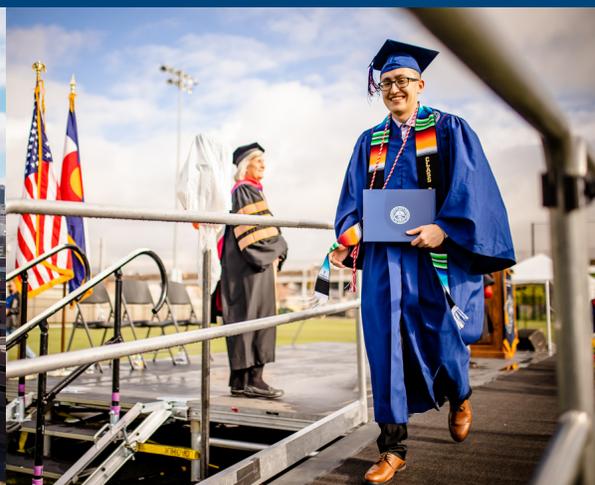


# 2022-2023 UNDERGRADUATE CATALOG



# METROPOLITAN STATE UNIVERSITY OF DENVER

# Metropolitan State University of Denver

Auraria Parkway at Speer Boulevard

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## 2022-2023 Undergraduate Catalog

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*This catalog contains comprehensive information about Metropolitan State University of Denver, the degrees and programs it offers, and the requirements a student must satisfy before receiving a degree. Information in this catalog is subject to change. For general University information go to MSU Denver's website, [msudenver.edu](http://msudenver.edu).*

*The programs, policies, statements and procedures contained in this publication are subject to change or correction by the University without prior notice. Metropolitan State University of Denver reserves the right to withdraw courses; revise the academic calendar; or change curriculum, graduation procedures, requirements and policies that apply to students at any time. Changes will become effective whenever the proper authorities so determine. This publication is not intended to be a contract between the student and Metropolitan State University of Denver. However, students are bound by the policies, procedures, standards and requirements stated herein, as long as they are in effect.*

*An academic year is defined as the Fall, Spring, and Summer semesters.*

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# The University and Its Mission

Metropolitan State University of Denver is a comprehensive university offering bachelor's and master's degrees on the Auraria Campus in downtown Denver. Founded in 1965, MSU Denver serves about 20,000 students and educates more undergraduate Coloradans than anyone else in the state.

## Role and Mission

MSU Denver is a comprehensive, baccalaureate- and master's-degree granting urban university that offers arts and sciences, professional and business courses and programs to a diverse student population in an atmosphere of mutual respect. Excellence in teaching and learning is MSU Denver's primary objective.

MSU Denver's mission is to provide a high-quality, accessible, enriching education that prepares students for successful careers, post-graduate education, and lifelong learning in a multicultural, global, and technological society. To fulfill its mission, MSU Denver's diverse university community engages the community at large in scholarly inquiry, creative activity and the application of knowledge.

## Undergraduate Degrees and Programs

With its modified, open admissions policy, the University welcomes students from all walks of life and circumstances, including all levels of academic preparation consistent with statutory guidelines, all conditions of economic and income status, all ages, and all ethnic and cultural backgrounds. In addition to degree-seeking students, non-degree students seeking opportunities for continuing education are welcomed.

- MSU Denver is required to serve adult students. Students who are 20 years of age or older and hold a GED or high school diploma are automatically admitted to MSU Denver, irrespective of their academic record.
- MSU Denver is required to serve traditional-age students of all levels of achievement and potential. As a result, the University enrolls a rich mix of recent high school graduates and transfer students, many with excellent grades and test scores and others with more modest achievements.
- MSU Denver is required to be accessible to all. That is why, with its tuition remaining among the lowest in the state, MSU Denver is Colorado's best value in education.
- Degrees and programs are offered in in-person, online, and hybrid formats, and available formats are listed on each major program page. MSU Denver students have complete flexibility to choose the course formats they prefer, and can mix and match formats regardless of the program they are pursuing.

The University is primarily a teaching institution in which excellence in teaching and learning is accorded the highest priority. Student success, supported in a collegial atmosphere of academic freedom, is of paramount importance, and all members of the college community

seek to inspire students to strive for the highest level of achievement. The University endeavors to provide students with an education that enhances the quality of their lives and enables them to be well-educated, critically thinking citizens who contribute and participate in meaningful ways in community and civic life.

At the undergraduate level, MSU Denver awards bachelor of science, bachelor of arts, bachelor of fine arts, bachelor of music and bachelor of music education degrees. Students may choose from more than 95 majors, more than 95 minors, and more than 30 certificate programs offered through three colleges: Business; Letters, Arts and Sciences; and Health and Applied Sciences; as well as the School of Education and the School of Hospitality. Programs range from the traditional disciplines, such as history and biology, to contemporary fields of study, such as biochemistry, athletic training, and communication design. MSU Denver offers several bachelor's degree programs unique in Colorado, including aviation management, health care management, meteorology, and integrative healthcare. Students may also design their own degree through the Individualized Degree Program.

## Graduate Degrees

MSU Denver offers advanced degrees in several graduate programs: Master of Science in Cybersecurity, Master of Professional Accountancy, Master of Social Work, Master of Business Administration, Master of Science in Clinical Behavioral Health, emphasis in Addictions Counseling, Master of Health Administration, Master of Science in Human Nutrition and Dietetics, and Master of Arts in Teaching with concentrations in Elementary Education and Special Education to a diverse population in an atmosphere of mutual respect. The master's programs are professionally-oriented degrees that will help to prepare students for success and accommodate graduates' increased engagement with community needs. Students interested in the master's programs should refer to the Graduate Catalog for details.

## Students

As an urban university committed to serving the local community, MSU Denver attracts students from a diverse mixture of age groups, socioeconomic classes, ethnic backgrounds and lifestyles. The University's curriculum and philosophy reflect that diversity and enrich the urban experience.

Current undergraduate enrollment as of Fall 2020 is 17,743. Students range in age from 14 to 74 with an average age of 25. MSU Denver enrolls the highest number of undergraduate students of color (48%) of all four-year colleges in the state.

About 63% of undergraduate students are enrolled full time, with 57% of students being first-generation to college. Ninety-two percent of undergraduate students reside in the seven county area of the Denver metropolitan area.

## Faculty

Almost 600 full-time faculty teach for MSU Denver. Professors are recruited and evaluated for their ability to teach and engage students. All classes are taught by academic instructors. As a culturally diverse team of academicians, 51% of full-time faculty are women, and 25% represent faculty of color.

The University also brings real-world education into the classroom by hiring affiliate faculty who work in the Denver metropolitan community and use their expertise and experience in the arts, business, communication, law, politics, the sciences and technology in their teaching. For a complete list of faculty and their credentials, please visit the Faculty page.

# The Campuses

Metropolitan State University of Denver is located at the Auraria Higher Education Center, a 127-acre campus in downtown Denver at Auraria Parkway and Speer Boulevard. The Community College of Denver and the University of Colorado Denver share the facilities with MSU Denver.

## Jordan Student Success Building

The campus includes more than one million square feet of space for classrooms, laboratories and offices. The Jordan Student Success Building, the first of two new MSU Denver Neighborhood buildings, opened in March 2012. The \$62-million building, funded entirely by student-approved fees, houses classrooms, administrative offices, and student services, including admissions, advising, registrar, financial aid, and the bursar's office, all in one convenient location.

## Hotel and Hospitality Learning Center

MSU Denver's Hotel and Hospitality Learning Center is one of only 11 teaching hotels on a university campus in the country. The hotel, a SpringHill Suites® by Marriott, includes 150 hotel rooms and conference facilities. It also provides hands-on training opportunities for students in the University's School of Hospitality. The adjacent Hospitality Learning Center boasts more than 28,000 square feet of

academic space, including classrooms, specialty learning labs and faculty offices.

## Historic Ninth Street Park and Tivoli Brewery

Other administrative offices are located in restored Victorian homes in Denver's historic Ninth Street Park located on the Auraria site. The campus also features a child care center; the comprehensive, 184,000 square-foot Auraria Library designed by Helmut Jahn of CF Murphy, which won an award from the American Institute of Architects; and one of the most unusual student union facilities in the country located in the historic, Bavarian-style Tivoli Brewery Building. Excellent physical fitness facilities include a block-long physical education/events center with a weight room, game courts, dance studios, a climbing wall, and event seating for 3,000.

## Center for Visual Art on Santa Fe

The University's proximity to downtown Denver enables students and faculty to use the community as a learning laboratory and to connect classroom theory to the cultural, economic, social, and political practices of the city. The Center for Visual Art (CVA), located in the Santa Fe Art District, is the University's off-campus art gallery. In addition to showing significant contemporary art, the award-winning CVA serves as an interactive art laboratory for MSU Denver students and the larger community.

# Accreditation and Recognition

- [University Accreditation](#)
- [Program Accreditation](#)
- [University Recognition and Awards](#)

## University Accreditation

The Metropolitan State University of Denver is accredited by the Higher Learning Commission ([hlcommission.org](http://hlcommission.org)), an institutional accreditation agency recognized by the U.S. Department of Education.

## Program Accreditation

Individual academic programs within the following areas are accredited or approved by the following agencies:

<b>Program</b>	<b>Accreditation/Approval Agency</b>
Accounting*. **	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>  Approved by the Colorado State Board of Accountancy, 1560 Broadway #1350, Denver, CO 80202
Exercise Science* Human Performance and Sport	Accredited by the Commission on Accreditation of Allied Health Education Programs, 1361 Park Street, Clearwater, FL 33756, Phone: 727-210-2350, <a href="http://caahep.org">caahep.org</a>
Art*	Accredited by the National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248, 703-437-0700, <a href="http://nasad.arts-accredit.org">nasad.arts-accredit.org</a>
Athletic Training Education Program* Human Performance and Sport	Accredited by the Commission on Accreditation of Athletic Training Education (CAATE); 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664; (512) 733-9700; <a href="http://caate.net">caate.net</a>
Aviation and Aerospace Science**	Approved by the Federal Aviation Administration (FAA), Aviation & Space Education, 800 Independence Ave SW, Washington, DC 20591
Center for Addiction Studies*	National Addiction Studies Accreditation Commission, 1001 North Fairfax Street, Suite 201, Alexandria, VA 22314, 703.562.0211, <a href="http://nasacaccreditation.org">nasacaccreditation.org</a>
Chemistry**	American Chemical Society, 1155 Sixteenth St NW, Washington, DC 20036, <a href="http://acs.org">acs.org</a>
Civil Engineering Technology* Electrical Engineering Technology* Mechanical Engineering Technology*	Accredited by the Engineering Technology Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201 Telephone: (410) 347-7700 <a href="http://abet.org">abet.org</a>
Computer Information Systems*	Accredited by the Computing Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201 Telephone: (410) 347-7700  Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
Computer Science*	Accredited by the Computing Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201 Telephone: (410) 347-7700 <a href="http://abet.org">abet.org</a>
Certified Addiction Counselor**	Approved by the Colorado Department of Human Services, Division of Behavioral Health, CO Department of State, 1700 Broadway, Suite 200, Denver, CO 80290, 303-894-2200
Entrepreneurship*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>

Finance*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
Global Business Studies*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
Health Care Management*	Accredited by the Association of University Programs in Health Administration, 2000 14th St North, Suite 780, Arlington, VA 22201 Phone: 202-638-1448; Fax: 202-638-3429; <a href="mailto:aupha@aupha.org">aupha.org</a> email: <a href="mailto:aupha@aupha.org">aupha@aupha.org</a>
Human Nutrition-Dietetics*	The Human Nutrition - Dietetics Major includes a didactic program in dietetics (DPD) accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040 ext. 5400, <a href="mailto:acend@eatright.org">acend@eatright.org</a> .
Human Services**	Approved by the Council for Standards in Human Services Education, 3337 Duke Street, Alexandria, VA 22314, <a href="http://cshse.org">cshse.org</a>
Industrial Design*	Accredited by the National Association of Schools of Art and Design, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248, Phone: 703-437-0700, <a href="http://nasad.arts-accredit.org">nasad.arts-accredit.org</a>
International Business*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
K-12 Physical Education	Reauthorized by the Colorado Department of Education, 1560 Broadway, Suite 1600, Denver, CO 80202 <a href="http://higher.ed.colorado.gov/Academics/TeacherEd/Educators.html">higher.ed.colorado.gov/Academics/TeacherEd/Educators.html</a>  Accredited by National Association for Sport & Physical Education (NASPE)/Council for the Accreditation of Educator Preparation (CAEP), 1140 19th St NW, Suite 400 Washington, DC 20036
Management*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
Marketing*	Accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 S. Harbour Island Blvd., Suite 750, Tampa, FL 33602, 813-769-6500, <a href="http://www.aacsb.edu">www.aacsb.edu</a>
Music*	Accredited by the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248, 703-437-0700, <a href="http://nasm.arts-accredit.org">nasm.arts-accredit.org</a>
Nursing*	Accredited by the Accreditation Commission for Education in Nursing (ACEN) 3390 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326 Phone: 404-975-5000, <a href="http://acenursing.org">acenursing.org</a>  Approved by the State Board of Nursing 1560 Broadway, Suite 1350, Denver, CO 80202 Phone: 303-894-2430, Web: <a href="http://dora.state.co.us/nursing">dora.state.co.us/nursing</a>
Recreation Professions*	Accredited by the Council on Accreditation of Parks, Recreation, Tourism and Related Professions, 22377 Belmont Ridge Rd, Ashburn, VA 20148, 800-626-6772, <a href="http://nrpa.org/coa">nrpa.org/coa</a>
Social Work*	Accredited by the Council on Social Work Education, 1701 Duke Street, Suite 200, Alexandria, VA 22314, (703) 683-8080, <a href="http://cswe.org">cswe.org</a>
Sport Management* Human Performance and Sport	Accredited by The Commission on Sport Management Accreditation (COSMA). 418 N. Granada Street, Arlington, VA 22203, <a href="http://cosmaweb.org">cosmaweb.org</a>
Teacher Education*	Reauthorized by the Colorado Department of Education, 1560 Broadway, Suite 1600, Denver, CO 80202 <a href="http://higher.ed.colorado.gov/Academics/TeacherEd/Educators.html">higher.ed.colorado.gov/Academics/TeacherEd/Educators.html</a>
Theatre*	Accredited by the National Association of Schools of Theatre, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190-5248, 703-437-0700, <a href="http://nast.arts-accredit.org">nast.arts-accredit.org</a>

\* Accreditation / \*\* Approval / \*\*\* Endorsed

### Accredited Student Services

Counseling Center	International Association of Counseling Services, 101 S. Whiting St. Suite 211 Alexandria, VA 22304, 703-823-9840, iacsinc.org
Health Center	Accreditation Association for Ambulatory Health Care, 5250 Old Orchard Road, Suite 200, Skokie, IL 60077, 847.853.6060, info@aaahc.org, aaahc.org

## University Recognition and Awards

- MSU Denver is a designated Hispanic-Serving Institution. A Hispanic-Serving Institution (HSI) is a federal designation by the U.S. Department of Education that acknowledges colleges and universities with 25% or more total undergraduate Hispanic/Latina/o/x full-time equivalent (FTE) student enrollment.
- MSU Denver has been named the Hispanic Association of Colleges and Universities' Outstanding HACU-Member Institution for 2021. The national award recognizes and honors extraordinary support of HACU's mission and MSU Denver's important contributions to the educational success of underserved populations, particularly Latinx students. For 34 years, MSU Denver has been a supportive member of HACU, and accessibility, diversity and inclusion have been core tenets of the University's mission since its inception. The University has hosted the HACU Emerging Leaders Summit, University staff have attended the annual Capitol Forum, and MSU Denver students have participated in HACU scholarship and internship programs.

# 2022-2023 Academic Calendar

- [Fall 2022 Semester](#)
- [Spring 2023 Semester](#)
- [Summer 2023 Semester](#)

Please note: Deadlines differ proportionally for courses offered during part of a semester, including late-start and weekend courses. Students should refer to the Student Detail Schedule in Student Hub to review drop and withdrawal deadlines for individual courses.

## Fall 2022 Semester

Priority Registration Begins	Monday, March 28, 2022
Academic Suspension Appeal Deadline	Monday, August 15, 2022
Tuition Payment Deadline	Friday, August 19, 2022
Classes Begin (Full-Semester Classes)	Monday, August 22, 2022
Last Day to Self-Register for Full-Semester Classes	Sunday, August 28, 2022
Last Day to Drop Full-Semester Classes with 100% Refund. For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Sunday, August 28, 2022
Last Day to Drop Classes with 50% Refund (Full- Semester Classes Only) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Wednesday, September 7, 2022
Labor Day (Campus Closed)	Monday, September 5, 2022
Last Day to Withdraw (Full-Semester Classes) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Friday, November 4, 2022
Fall Break (Campus Open, No Classes)	Monday, November 21 - Sunday, November 27, 2022
Thanksgiving Holiday (Campus Closed)	Thursday, November 24, 2022
MSU Denver Closed (Thanksgiving Holiday)	Friday, November 25, 2022
Classes End (Full-Semester Classes)	Saturday, December 10, 2022
Final Exam Week	Monday, December 12 - Saturday, December 17, 2022
Commencement	Friday, December 17, 2022
Grades Due From Faculty at Noon	Thursday, December 22, 2022
Grades Available Online at Student Hub	Friday, December 23, 2022
Winter Break (Campus Closed)	Saturday, December 24, 2022-Monday, January 2, 2023

## Spring 2023 Semester

Priority Registration Begins	Monday, October 31, 2022
Winterim Period	Monday, January 3 - Saturday January 14, 2023
Academic Suspension Appeal Deadline	Monday, January 9, 2023
Tuition Payment Deadline	Friday, January 13, 2023
Martin Luther King Jr. Day (Campus Open, No Classes)	Monday, January 16, 2023
Classes Begin (Full-Semester Classes)	Tuesday, January 17, 2023
Last Day to Self-Register for Full-Semester Classes	Monday, January 23, 2023
Last Day to Drop Full-Semester Classes with 100% Refund. For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Monday, January 23, 2023
Last Day to Drop Classes with 50% Refund (Full- Semester Classes Only) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Monday, February 2, 2023
Spring Break (Campus Open, No Classes)	Monday, March 20 - Sunday, March 26, 2023
Last Day to Withdraw (Full-Semester Classes) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Friday, March 31, 2023
Classes End (Full-Semester Classes)	Saturday, May 6, 2023
Final Exam Week	Monday, May 8 - Saturday, May 13, 2023
Commencement	Friday, May 12, 2023
Grades Due from Faculty at Noon	Thursday, May 18, 2023
Grades Available Online at Student Hub	Friday, May 19, 2023

## Summer 2023 Semester

Priority Registration Begins	Monday, February 27, 2023
Memorial Day (Campus Closed)	Monday, May 29, 2023
Maymester Period	Tuesday, May 30 - Saturday, June 10, 2023
Academic Suspension Appeal Deadline	Monday, June 5, 2023
Tuition Payment Deadline	Friday, June 9, 2023
Classes Begin (Full-Semester, 8-week Classes Only)	Monday, June 12, 2023
Last Day to Self-Register for Full-Semester Classes	Thursday, June 15, 2023
Last Day to Drop Full-Semester Classes with 100% Refund. For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Thursday, June 15, 2023
Last Day to Drop Classes with 50% Refund (Full- Semester Classes Only) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Tuesday, June 20, 2023
Independence Day Holiday Observed (Campus Closed)	Tuesday, July 4, 2023
Last Day to Withdraw (Full-Semester Classes) For specific refund and withdrawal deadlines for non-full semester classes, look at your student detail schedule in Student Hub.	Tuesday, July 18, 2023
Classes End (Full-Semester, 8-week Classes Only)	Saturday, August 5, 2023
Grades Due from Faculty at Noon (Full- semester, 8-week Classes Only)	Thursday, August 10, 2023
Grades Available Online at Student Hub (Full- semester, 8-week Classes Only)	Friday, August 11, 2023

# Academic Policies and Procedures

Students are responsible for full knowledge of the provisions and regulations pertaining to their program contained in this catalog and elsewhere. Students have final responsibility for completing the requirements for a degree and are urged to seek advising. Students should never assume that they have approval to deviate from a stated requirement without a properly signed statement to that effect.

For information regarding MSU Denver's academic policies, click on a link to be taken to the entry below.

- [Catalog Selection](#)
- [Classification of Student Status](#)
- [Computing GPA](#)
- [Course Credit](#)
- [Course Count and Limits](#)
- [Course Load](#)
- [Declaring or Changing a Major or Certificate](#)
- [Degree for Students with Terminal Illness](#)
- [Fresh Start](#)
- [Grades and Notations](#)
- [Grade Appeal](#)
- [Grade Change](#)
- [Best Grade Stands](#)
- [Honors and Awards](#)
- [Last Date of Attendance](#)
- [Pass/Fail Option](#)
- [Posthumously Awarded Degrees](#)
- [Repeated Courses](#)
- [Warning/Probation/Suspension Policy](#)

## Catalog Selection for Degree and Certificate Requirements

In determining degree and certificate requirements, students are governed by the catalog in effect for the semester of acceptance to MSU Denver. Students may elect to follow any later qualifying catalog edition that is put into effect while they are continuously enrolled at MSU Denver. A qualifying catalog must contain the student's complete program of study, including, but not limited to, major, minor, concentration, and other graduation requirements. If the student's complete program of study (major, minor, etc.) is no longer offered, the student cannot elect to follow that catalog. All degree and certificate requirements must adhere to current policies at MSU Denver. Students who do not enroll in classes for three or more consecutive semesters (Fall, Spring, and Summer, in any order) must be readmitted to the University and are governed by the catalog in effect upon their re-acceptance. Students who are readmitted to the University may at any point elect to follow degree requirements under an earlier MSU Denver catalog, subject to the following conditions:

- The student must select a degree catalog that does not predate the current catalog by more than 10 academic years at the time of request.
- To complete a degree program under an earlier, qualifying catalog, the student must obtain authorization from the academic department offering the degree program.
- To complete a degree or certificate program under an earlier, qualifying catalog, the student must obtain authorization per the degree exception process.
- In order for the selected qualifying catalog edition to remain in effect, the student must maintain continuous enrollment at the University.

Students transferring to MSU Denver from a regionally accredited, Colorado community college may complete degree requirements under an MSU Denver catalog in effect while they were enrolled at the community college, subject to the following conditions:

- The student must select a degree catalog that does not predate the current catalog by more than three academic years.
- To complete a degree program under an earlier, qualifying catalog, the student must obtain authorization from the academic department offering the degree program.
- In order for the selected catalog edition to remain in effect, the student must maintain continuous enrollment at the community college and subsequent continuous enrollment at the University until the student completes the degree program at MSU Denver.

## Classification of Student Status

Students are classified according to the number of semester hours of credit earned: freshman status equals fewer than 30; sophomore status equals 30 or more, but fewer than 60; junior status equals 60 or more, but fewer than 90; senior status equals 90 or more.

## Computing Grade Point Average/Quality Points

The number of quality points awarded for a course is determined by multiplying the number of semester hours for that course by the quality point value of the grade received. The cumulative GPA is calculated by dividing the total number of quality points by the number of semester hours attempted.

To be eligible for a degree, a candidate must have a minimum number of quality points equal to twice the number of semester hours attempted in addition to meeting other prescribed requirements. The following notations have no effect on the GPA: AP, AU, AW, CC, CL, EX, I, NR, P, PL, PP, S, S#, SA, SE, SN, U#, W.

## Course Credit (Semester Hours)

Course credit is based on units designated as semester hours. One semester hour or one base contact hour equals a minimum of 750 minutes; this equation translates to a minimum of 15, 50-minute class hours per semester. Time required for class preparation is not a consideration in the calculation of course credit. A three semester

hour course will require approximately six to nine hours of work each week outside of class. Omnibus courses involving laboratory work give one semester hour of credit for each two, three or four hours of scheduled work in the laboratory during a week, depending on the course. Internships require a minimum of 2,250 minutes for each hour of credit.

## Course Count and Limits

Courses that fulfill General Studies requirements and also fulfill degree program requirements, such as a major, minor or certificate, are allowed to count as meeting requirements in these areas. This means a course may count multiple times in a student's degree plan. The credit hours for the course fulfill the credit hours in each area that the course is listed (major, minor, General Studies, etc.), but still only count once in the 120-credit hour minimum requirement for the awarding of a degree.

To ensure a well-rounded higher education grounded in the liberal arts and sciences, student course selections cannot be confined solely to their major. Within each degree a student must take at least 33 credit hours outside of their major's most recurrent prefix in order to graduate. For the purpose of this rule courses taken in a minor, a second or double major, ancillary course work or other academic program that does not carry the student's most recurrent major prefix would count toward the 33 -credit hour total necessary to graduate.

In an interdisciplinary major, the academic prefix that comprises a majority of the credit hours in the major would be considered the most recurrent prefix. If there is not an academic prefix with a majority of credit hours, then the prefix that has the largest fraction of credit hours would be considered the most recurrent prefix for the purpose of this rule. In programs where there is a tie in the number of credit hours required per prefix, the department that owns the major for the purposes of the curriculum manual will be treated as the owner of the most recurrent prefix.

This rule means students may fulfill many degree requirements but still not have the necessary total 120 credit hours to complete a bachelor's degree. Students are encouraged to meet with professors or academic advisors to consider coursework outside of General Studies, a major and minor, such as a double major, an additional minor or coursework in other interest areas, to ensure degree completion in a timely manner.

## Course Load

The average course load for a 16-week semester is 15 or 16 semester hours; 18 semester hours is the maximum load for fall and spring semesters, with a maximum of 12 semester hours for summer semester. The maximum load for a two-week Winterim or Maymester term is 3 semester hours, excluding short-term study abroad courses. During fall and spring semesters, students with cumulative MSU Denver grade point averages (GPAs) of 3.25 or higher may take 19 or 20 semester hours for the fall and spring semesters or 13 or 14 semester hours for the summer semester, and those students with GPAs of 3.50 or higher may take 21 or more semester hours for the fall and spring semesters or 15 or more semester hours for the summer semester. Students must have

completed at least 15 semester hours at MSU Denver to qualify. All students should complete the Undergraduate Petition for Overload Exception form and return it to the deans' office. Note that signatures by the student's major department chair and the appropriate dean are required for students petitioning for 21 or more credit hours, or those not meeting the minimum qualifications. Forms are available from the department, deans' offices, or online.

## Declaring or Changing a Major or Certificate

New students indicate their intended major on the MSU Denver Application for Admission. While students may select "Undeclared" as a major at the time of admission, all degree-seeking students must declare a major before completion of 45 credits. Degree-seeking students who transfer in more than 45 credits must declare a major before registering for a second semester. Degree-seeking students who wish to change a major and students pursuing a certificate program must complete a Declaration/Change of Major form, which is available from the major department or from the Office of the Registrar. Non-degree-seeking students who wish to declare a major must first change to degree-seeking status by completing a Change of Status form with the Office of Admissions.

## Degrees for Students with Terminal Illness

A student in good standing who is diagnosed with a terminal illness while attending Metropolitan State University of Denver may be awarded a degree without fulfilling all degree requirements.

The criteria for the award of a degree under these circumstances are:

- The student is in good academic standing
- The student is otherwise eligible for continued enrollment
- Documentation from the treating physician is received by the university

Any party interested in seeking a degree for a student with a terminal illness will contact the Dean of the College or School in which the student's program resides or the Dean of Students. Upon final approval of the President and/or the Board of Trustees, a diploma will be given to the student, or a person designated by the family. The name of the student may be announced at the commencement directly following the conferring of the degree.

If it is determined that the student was enrolled in their final courses sufficient to meet the University's graduation requirements, and therefore would have earned their degree had they successfully completed the remaining program requirements in their last semester of enrollment, the degree will be counted as an earned degree within University completion counts. If it is determined that the student recovers from the terminal illness, the Office of the Registrar will expunge the degree.

If it is determined that the student was not enrolled in their final courses sufficient to meet the University's graduation requirements, and therefore would not have been granted a degree if they successfully completed the last semester of enrollment, the degree

will not be counted as an earned degree within University completion counts and will not be listed on the student's transcript.

In instances in which the criteria for the award of a degree have not been met, college or department faculty may present collegiate or departmental awards of recognition at ceremonies other than commencement.

## Fresh Start

Students returning from a period of absence from MSU Denver may request that credit and grades from designated semesters previously attempted at MSU Denver not be calculated in GPA or total earned hours.

If such a "Fresh Start" is approved, all courses from designated semesters will appear on the official academic record but will be annotated to indicate they do not count for academic credit or GPA calculation.

This Fresh Start will be granted once, for a period of at least one semester, with a maximum of 54 credit hours, under the following conditions:

- The student must have not been enrolled at MSU Denver for three (3) consecutive calendar years. This policy shall only apply to designated semesters in which the student earned a GPA of 2.0 or below, which have not been applied to the completion of an MSU Denver degree or certificate, and which were attempted prior to the three year absence.
- The student must be in good financial standing with MSU Denver at the time of application.
- The Fresh Start policy may only be used once in a student's entire MSU Denver career.
- An approved Fresh Start shall not be reversed.
- The student must declare a certificate or major program before applying for Fresh Start and work with an academic advisor to complete an application.

## Grades and Notations

Faculty must assign a grade or notation for each student enrolled in a particular course. Faculty may, at their discretion, use the plus/minus system but are not required to do so. Faculty are required to notify students of the grading system used for an individual course via the course syllabus.

Certain grades and notations may impact a student's financial aid or other benefits. Students who request a grade or notation that impacts their financial aid or benefits are encouraged to speak with a counselor in the Office of Financial Aid and Scholarships or the benefits provider prior to submitting the request.

### Grades

Letter grades and status symbols are as follows:

A+	4.00 quality points per semester hour attempted
A	4.00 quality points per semester hour attempted
A-	3.67 quality points per semester hour attempted

B+	3.33 quality points per semester hour attempted
B	3.00 quality points per semester hour attempted
B-	2.67 quality points per semester hour attempted
C+	2.33 quality points per semester hour attempted
C	2.00 quality points per semester hour attempted
C-	1.67 quality points per semester hour attempted
D+	1.33 quality points per semester hour attempted
D	1.00 quality point per semester hour attempted
D-	0.67 quality point per semester hour attempted
F	0 quality points per semester hour attempted
(Grade with #) - Preparatory	0 quality points per semester hour attempted

### Notations

For an explanation of each notation, click on a link to be taken to the entry below.

AP - Advanced Placement

AU - Audited Course

AW - Administrative Withdrawal

CC - Continuing Correspondence Course

CL - College Level Examination Program

EX - Credit by Examination

I - Incomplete

NR - Not Reported

P - Pass

PL - Portfolio Assessment

PP - PEP Exam

S - Satisfactory

SA - Study Abroad

SE - Satisfactory - Education or Music Recital Attendance

SN - Study Abroad - No Credit

U - Unsatisfactory

UE - Unsatisfactory - Education or Music Recital Attendance

W - Withdrawal

### AP - Advanced Placement

The Advanced Placement (AP) notation is assigned when a student transfers credit for an Advanced Placement Examination conducted by the College Entrance Examination Board. The examination appears on the academic record with an "AP" notation. Credit for the examination does not count toward the student's attempted hours, counts toward earned hours, and is not calculated in the GPA or quality points.

### AU - Audited Course

The Audited Course (AU) notation is assigned when a student audits a course for informational purposes only. If space is available, students who meet MSU Denver admission requirements and are formally admitted to the University may audit a class with the permission of the instructor. Academic credit is not awarded for an audited course. The cost for auditing a course is based on applicable tuition and fees. The course appears on the academic record with an

"AU" notation and does not count toward the student's attempted hours. The course is not calculated in the GPA or quality points. Audit approval forms are available from the Office of the Registrar, Student Success Building, Suite 160 (#3).

## **AW - Administrative Withdrawal**

The Administrative Withdrawal (AW) notation is assigned when a student, or representative, requests to be withdrawn from a course due to unforeseen or extenuating circumstances beyond the student's control. When the "AW" notation is assigned, no academic credit is awarded. The course remains on the student's academic record with an "AW" notation and counts toward the student's attempted hours. The course is not calculated in the student's GPA.

Students may request an administrative withdrawal from the Office of the Registrar after the withdrawal deadline posted in the Academic Calendar. Deadlines differ proportionally for courses offered during part of a semester, including late-start and weekend courses. Students should refer to the Part-of-term dates published by the Office of the Registrar to review drop deadlines for individual courses.

Although requests are evaluated on a case-by-case basis, examples include the death of an immediate family member, serious illness or medical emergency, or other life-altering event. The student must provide supporting documentation to substantiate the request.

Students who request an administrative withdrawal may also request a tuition refund by filing an Undergraduate Tuition and Fees Appeal through the Office of the Bursar.

## **CC - Continuing Correspondence Course**

The Continuing Correspondence Course (CC) notation is assigned when a student does not complete a correspondence course within a given semester. No academic credit is awarded. The course counts toward the student's attempted hours, does not count toward earned hours, and is not calculated in the GPA or quality points. If the course is not completed within the course's designated timeframe, the "CC" notation will convert to a grade of "F."

## **CL - College Level Examination Program (CLEP)**

The College Level Examination Program (CL) notation is assigned when a student transfers credit for an examination completed through CLEP. Credit for the examination does not count toward the student's attempted hours, counts toward earned hours, and is not calculated in the GPA or quality points.

## **EX - Departmental Credit by Examination**

The Credit by Examination (EX) notation is assigned when an academic department grants a student credit for an existing MSU Denver course for which the student requests and passes an appropriate examination. Credit for the examination does not count toward the student's attempted hours, counts toward earned hours, and is not calculated in the GPA or quality points.

## **I - Incomplete**

The Incomplete notation may be assigned when a student is achieving satisfactory progress in a course and is not able to complete all class

assignments due to extenuating circumstances, such as documented illness, military leave, disability, internships that fall outside traditional semester timeframes, or circumstances beyond their control. If a student has completed, at a minimum, a majority of course work and/or course contact hours, a student may request an Incomplete after the Withdrawal Deadline posted in the Academic Calendar. Deadlines differ proportionally for courses offered during a part of the semester, including late-start and weekend courses. Students should refer to the Part of Term dates published by the Office of the Registrar to review withdrawal deadlines for individual courses. Departments may have additional standards and/or criteria. Students should consult with their faculty member and department to determine additional requirements.

The incomplete notation is composed of an "I" (noted on the students transcript) as well as the student's default grade (A, A-, B+, B, etc.), the grade the student has earned when they leave the class out of the total points of the class (the grade the student will earn if no additional work is submitted). Incomplete work must be completed within the subsequent long semester (fall or spring) or earlier, at the discretion of the faculty member. In the event of extended extenuating circumstances, the completion date for incomplete work may be extended for an additional long semester, at the discretion of the faculty member. If the incomplete work is not completed, the "I" notation will convert to the default grade submitted by the faculty member.

Determination of eligibility does not guarantee that an incomplete will be granted. Students who meet the qualifications may request an incomplete from the faculty member who is teaching the course. The decision to grant an incomplete is up to the faculty member or at the department chair's discretion, if the faculty member is not available.

The decision to grant an incomplete as an accommodation based on a student's disability shall be made by the faculty member or the department chair, if the faculty member is not available, in consultation with the Director of the Access Center.

If an incomplete is granted, the student and faculty member must fill out and sign an Incomplete Agreement Form to clarify what outstanding work the student should complete within the designated timeframe. Departments may have additional standards and/or criteria. Students should consult with their faculty member and department to determine additional requirements.

Graduating seniors may not graduate with an "I" on their MSU Denver academic record if:

- The course in which the "I" was assigned is required for graduation, or
- The default grade assigned for that course would result in an overall GPA less than 2.00.

The "I" notation may not be given for a self-paced course. If a student does not complete a self-paced course within the semester that they enrolled in the course, they must re-enroll in the course in order to complete it. In this case, the student will pay tuition and fees.

## **NR - Not Reported**

The Not Reported (NR) notation indicates that no grade was reported by the faculty by the deadline to submit grades. Student must see faculty for an explanation or assignment of grade. Courses taken through interinstitutional registration are normally assigned the "NR" notation until grades are received and posted to the academic record. Students who receive an "NR" notation on their final grade report may be severely impacted. Financial aid, enrollment status, veterans' status and probation/suspension depend on students receiving all of their grades. The course counts toward the student's attempted hours, does not count toward earned hours, and is not calculated in the GPA or quality points.

### **P - Pass**

The Pass (P) notation is assigned when a student successfully completes a course for which the Pass/Fail Option has been requested. Course credit counts toward the student's attempted and earned hours but is not calculated in the GPA or quality points.

### **PL - Portfolio Assessment**

The Portfolio Assessment (PL) notation is assigned when an academic department grants a student credit for an existing MSU Denver course for which the student submits a prior learning portfolio. Course credit does not count toward the student's attempted hours, counts toward earned hours, and is not calculated in the GPA or quality points.

### **PP - PEP Exam**

Course credit does not count toward the student's attempted hours, counts in earned hours, and is not calculated in the GPA or quality points.

### **S/U - Satisfactory/Unsatisfactory**

The Satisfactory (S) notation is equivalent to a grade of "C" or higher. Course credit counts toward the student's attempted and earned hours but is not calculated in the GPA or quality points.

The Unsatisfactory (U) notation is equivalent to a grade of "F." Course credit counts toward the student's attempted hours, does not count toward earned hours, and is calculated in the GPA or quality points.

These notations are limited to internships, practica, field experience courses, and workshops.

### **SA/SN - Study Abroad/Study Abroad - No Credit**

For the Study Abroad (SA) notation, course credit counts toward the student's attempted and earned hours but is not calculated in the GPA or quality points.

For the Study Abroad - No Credit (SN) notation, course credit counts toward the student's attempted hours, does not count toward earned hours, and is not calculated in the GPA or quality points.

### **SE/UE - Satisfactory/Unsatisfactory - Education or Music Recital**

The Satisfactory Education or Musical Recital (SE) notation is equivalent to a grade of "B" or higher. Course credit counts toward

the student's attempted and earned hours but is not calculated in the GPA or quality points.

The Unsatisfactory Education or Musical Recital (UE) notation is equivalent to a grade of "F." Course credit counts toward the student's attempted hours, does not count toward earned hours, and is calculated in the GPA and quality points.

These notations are limited to the following courses: ECE 4390, EDS 4290, EDU 4190, EDU 4590, SED 4190 and SED 4500; MUS 0020.

### **W - Withdrawal**

The Withdrawal (W) notation is assigned when a student officially withdraws from a course via the Student Hub after the drop deadline (census date) and before the withdrawal deadline posted in the Academic Calendar. Deadlines differ proportionally for courses offered during part of a semester, including late-start and weekend courses. Students should refer to the Student Detail Schedule via the Student Hub to review drop and withdrawal deadlines for individual courses. When a student withdraws from a course, no academic credit is awarded. The course remains on the student's academic record with a "W" notation and counts toward the student's attempted hours. The course is not calculated in the student's GPA or quality points. Students who withdraw from a course are responsible for the full tuition and fees for that course. After the withdrawal deadline, students may not withdraw from a course and will be assigned the grade earned based on the course syllabus. A student-initiated withdrawal will appear as an "F" on the student's academic record in any case of academic misconduct resulting in a permanent "F".

## **Grade Appeal**

If students have reason to question the validity of a grade received in a course, they must make their request for a change before the end of the fourth week of the semester following the completion of the course (the following fall semester if the course was completed in the spring semester). It is the responsibility of the student to initiate a grade appeal within the time limit, and to follow the procedures for grade appeals specified below. All decisions of the Grade Review Committee are final.

### **Student Grade Appeals**

The university supports open communication as the best means to resolve concerns about grades. If a student believes that the grade they received for a course does not reflect the quality of their work, the first step is to meet with the instructor for the course on an informal basis. The following will be the only acceptable grounds for formal grade appeals:

1. The course grade was assigned on a basis other than performance in the course.
2. The instructor used standards that were different from those allowed for other students in the same class, or different from those allowed in departmental/college/school policies if specific departmental/college/school grading policies exist.
3. A substantial and unannounced departure from the instructor's previously articulated standards was used in assigning the grade.

4. A permanent "F" has been assigned and the student wishes to appeal.

Only grade appeals based on one or more of the above criteria will be considered. Outside the regular grade change procedure, only the chair of the Grade Review Committee, with proper written authorization from that committee, may initiate the grade exception process.

## **Exceptions to the Grade Appeal Policy and Procedure**

The Grade Appeal Procedure shall constitute the sole internal administrative remedy for a change in grade, except when a grade dispute involves an Office of Equal Opportunity discrimination complaint. If a grade dispute arises from an issue that is covered under the university's Equal Opportunity policies, which address discrimination on the basis of race, color, disability, religion, national origin, sex, sexual orientation, age or status, such as Vietnam-era disabled veteran, the student should contact the Office of Equal Opportunity. The Office of Equal Opportunity process for resolution takes precedence over the university's grade appeal process.

## **Grade Appeal Procedure**

The Grade Appeal Procedure shall have both an informal and a formal resolution process. The student must attempt informal resolution prior to filing a formal grade appeal.

## **Informal Resolution Process**

### **Step 1**

The informal resolution process must take place before the last day of the fourth week of the semester following the assignment of the grade. The student must meet with the instructor prior to meeting with the chair or proceeding to the formal appeal process.

### **Step 2**

If the instructor is not available to meet with the student or does not respond to the student's request to meet and/or the student is not satisfied with the result of the informal meeting with the instructor, the student must meet with the chair of the department to attempt to resolve the grade concern prior to filing a formal grade appeal.

During the informal resolution process, the student may meet with the dean or the dean's designee to clarify the grade appeal policy and process. The student may also access Student Conflict Resolution Services for assistance in the process. Students are encouraged to use the informal resolution process to clarify any miscommunications with the instructor or confusion about course expectations.

## **Formal Resolution Process**

### **Step 1: File Petition with the Dean**

After meeting with the instructor and the chair and failing to resolve the grade concerns, the student may initiate a formal resolution process. The student must file a Petition for Grade Appeal with the dean of the instructor's school by the last day of the fifth week of the semester following the course for which the grade was assigned.

Deans may designate an associate or assistant dean to act in their places for the purposes of the Grade Appeal Procedure.

**Timeline:** A Petition for Grade Appeal for a grade assigned in fall term shall be filed in the spring term. A Petition for Grade Appeal for a grade assigned in spring or summer term shall be filed in the following fall term. If the dean determines that it is academically necessary for the grade appeal to be processed during a summer term, they will facilitate the process by developing an appropriate timeline and submitting a copy of the timeline to the chair and the Executive Vice President for Academic Affairs or their designee. With the exception of the deadline set for filing the Petition for Grade Appeal, the timelines for the process may be extended by written agreement of the student and dean or by the Office of Academic Affairs if good cause is shown.

**Process:** It is the student's responsibility to obtain and file the Petition for Grade Appeal form and to follow the procedural rules for the appeal process. The student is advised to keep a copy of all documents submitted. The Petition for Grade Appeal form is available through each academic dean's office and the Office of the Registrar. A separate Petition for Grade Appeal must be filed for each course in which a grade is disputed. Access to all documents submitted is restricted to those involved in the grade appeal process or otherwise having a need to know.

The student must provide the dean with a completed Petition for Grade Appeal and all material that relates to the disputed grade at the time that the formal Petition for Grade Appeal is submitted. The petition must include:

1. A statement addressing how the appeal meets one or more of the four criteria necessary for a formal grade appeal.
2. A description of what occurred during the informal resolution process.
3. Copies of all graded materials from the course that are in the student's possession.
4. Any relevant documents the student would like to be reviewed as part of the appeal process.
5. A copy of the course syllabus/class policies (if the student has a copy).

The dean will forward a copy of the Petition for Grade Appeal to the chair of the department to notify the chair that a formal procedure has been initiated. The chair will be responsible for passing materials regarding the grade appeal on to the instructor. Within 15 working days of receiving the formal appeal, the dean will assess whether one or more of the criteria have been met in the Petition for Grade Appeal. The dean may contact the student, instructor or chair to ask questions and/or request further information or documents in the process of assessing whether the appeal meets the criteria. The dean may request that the instructor provide a written response to the student's Petition for Grade Appeal and may request any additional documentation necessary to assess the Petition for Grade Appeal at this point in the process. Additional documentation may include graded materials in the instructor's possession. If any of the material

provided by the instructor is confidential, e.g., examinations that may be used in subsequent terms, such materials shall be made available for review but shall not be made part of the Petition for Grade Appeal. The instructor has five working days to provide the response and materials requested by the dean to the dean and chair. A copy of the written response will be provided for the student. In their decision, the dean may:

1. Deny the appeal and send a letter or email to inform the student, the instructor and the chair of the instructor's department within five working days.
2. Decide that one or more of the criteria may have been met, and continue the formal appeal process. If the dean has not already requested a written response to the Petition for Grade Appeal from the instructor, the dean will make that request. The instructor has five working days to provide the written response and any additional materials requested to the student, chair, and dean. The dean will contact the student, instructor and chair within 15 working days of receiving the Petition for Grade Appeal to convene a meeting of all parties. The purpose of the meeting is to seek resolution of the appeal. Minutes shall be taken at the meeting.

If the appeal is resolved through the process of the meeting, the formal appeal process will end. The dean will write a report summarizing the resolution.

If the appeal is not resolved at the meeting, the dean shall send a copy of the minutes from the meeting, with a written recommendation, to the student, the instructor and the chair within five working days after the conclusion of the meeting.

The dean will send a copy of all materials relating to the Petition for Grade Appeal to the Executive Vice President for Academic Affairs or their designee for record-keeping purposes within five working days after the conclusion of the meeting or after sending a letter stating the appeal does not meet the criteria.

## **Step 2: File the Petition with the Grade Review Committee**

If the appeal is not resolved to the student's satisfaction at the dean's level and the student wants the formal process to continue, the student must send a written request to the Executive Vice President for Academic Affairs or their designee within five working days of receiving either a letter stating that the appeal does not meet the criteria or the recommendation based on the meeting from the dean. The Executive Vice President for Academic Affairs or designee will inform the dean, chair and instructor that the Grade Review Committee (GRC) will review the appeal.

The members of the GRC shall review all documents submitted by the dean and meet to discuss whether to hear the appeal or not within 20 working days. The GRC will not conduct a re-evaluation of the student's work and will not change the grade of an individual assignment. The GRC will hold a hearing for the Petition for Grade Appeal only if the appeal meets one of the four criteria necessary for a formal appeal.

The GRC may decide that they will not hear the appeal because no criterion has been met, or the petition is substantially incomplete. The GRC shall send written notification of their decision not to hear the appeal within five working days to the student, instructor, chair and dean, and the formal appeal process is over.

If the appeal is heard, the GRC shall notify the student, instructor, chair and dean, and will request their presence at the hearing meeting. The purpose of the meeting is to have all parties to the grade dispute provide answers and clarifications that members of the GRC may need in order to make a sound decision on the case.

The decision of the GRC shall be in the form of a motion, duly made and seconded, and adopted by a majority of the GRC members present and voting, assuming a quorum is met. In its decision, the GRC may:

1. Deny the appeal on its merits, with the effect that the disputed grade will remain on the student's academic record.
2. Grant the appeal and change the final grade to a grade or grade equivalent that is determined appropriate by the GRC.

The GRC will inform the student, instructor, chair and dean of its decision in writing within five working days of the hearing.

The decision of the GRC is final and cannot be appealed.

If the GRC finds in favor of the student's appeal, then the chair of the GRC acquires the authority to initiate the grade exception process. The chair of the GRC has five working days to notify the instructor of the decision and to initiate the grade exception process.

The Petition for Grade Appeal and all attachments will be kept in the Office of the Vice President for Academic Affairs for a minimum period of three years.

## **Grade Review Committee Membership and Policies**

1. The GRC shall consist of eight members as follows:
  - Two members shall be elected by and from faculty from the College of Letters, Arts and Sciences.
  - One member shall be elected by and from faculty from the College of Health and Applied Sciences.
  - One member shall be elected by and from the faculty from the College of Business.
  - One member shall be elected by and from the faculty from the School of Education.
  - One member shall be elective by and from the faculty from the School of Hospitality.
  - Two student members shall be appointed by the Student Government Assembly.
  - One non-voting ex-officio member from the Office of Academic Affairs shall be appointed by the Executive Vice President for Academic Affairs. Responsibilities of this member shall include staff assistance and record keeping.
2. The term of membership on the GRC shall be two years, with terms staggered, except that the term of the student

members shall be one year. Terms shall begin on the first day of classes of the fall semester.

3. Members may serve successive terms.
4. Elections of faculty from each school or college shall occur in the spring, and members shall take office on the first day of classes of the fall semester.
  - The representative from the Office of Academic Affairs shall convene the first meeting of the GRC in the fall, at which time the members shall elect a chair.
5. A meeting of the GRC to consider and vote on a Petition for Grade Appeal must have a quorum of voting members.
6. The GRC shall prepare a written summary of the committee's decisions, the rationale for its decisions and the vote tally on the appeal. The summary shall be added to all existing documentation of the appeal.
7. All documentation in a grade appeal shall be maintained in the Office of the Executive Vice President for Academic Affairs for a three-year period.
8. The Chair of the GRC shall provide a yearly report of appeal activities, including recommendations for amending the Student Grade Appeal Policy, to the Office of Academic Affairs by the last day in June. Copies will be sent to all academic deans.

## Definitions

1. Informal Resolution means informal discussions that lead to the resolution of a grade dispute the student may have with the instructor, the chair of a department and/or the dean of a school.
2. Grade appeal procedure means the formal resolution procedure.
3. The time limits refer to weeks, not days of weeks.
4. The end of day means 5 p.m. on the designated day (i.e., end of a working day).
5. The last day of the week means the Friday of a calendar week.
6. Week ordinarily means Monday-Friday. If, for example, classes are not in session on a Monday, the designated week still ends on Friday.
7. Working day means any day classes or examinations are scheduled, excluding Saturdays, Sundays and holidays.
8. Assigned grade means a letter grade (e.g., A, B, C, D or F), grade equivalent (e.g. S/U), or the temporary grade of I (Incomplete).

## Grade Change

Grade changes must be submitted within the first seven weeks of the semester following the completion of the class. Spring semester grades can be changed through the seventh week of the following fall semester. Faculty may submit a grade change online to the Office of the Registrar via the Faculty and Staff portal.

The faculty member may change an Incomplete (I) notation at any time within three consecutive semesters (including summer semester) after the end of the semester in which the class was attempted. At the end of the third consecutive semester (one calendar year), if the

incomplete notation remains on the academic record, it will become an "F."

Grades may NOT be changed on the basis of revised standards of evaluation, new examinations, or additional work undertaken or completed after grades are submitted to the Office of the Registrar. Grades may only be changed on the basis of an error in evaluation, computation, or transcription.

## Best Grade Stands

A student's grades for repeated courses will be removed from GPA calculations up to 18 semester hours, regardless of the original grade earned. If a student repeats more than 18 credit hours, the student may designate which of the course grades are removed from GPA calculations (up to 18 semester hours). Only the best grade and its associated credit will be calculated in the GPA and earned hours totals. Other attempts for the course will appear on the official academic record but will be annotated to indicate they do not count for academic credit or GPA calculation. This policy applies only to courses taken at MSU Denver, and it does not apply to courses designated as repeatable toward degree requirements.

To qualify for this policy, a repeated course must carry the same title, course number, and semester hours as the original course. Officially recognized course equivalencies will apply, excluding transfer course equivalencies. The determination of course equivalency will be made by the Office of the Registrar in consultation with the Office of Academic Affairs and the academic department offering the course.

A grade will not be removed from GPA calculations once a degree has been conferred if the course was required for the degree conferred. Students who have earned a degree at MSU Denver and subsequently take additional courses or work toward a second degree may use this policy for courses in which they are enrolled after the first degree is awarded.

A permanent "F" assigned as a result of academic dishonesty will not be removed from GPA calculations.

## Honors and Awards

MSU Denver annually recognizes students who show outstanding leadership and service to the University and community, excellence in scholastic achievement, and outstanding personal character and integrity. Due to wide variation in definition and interpretation of class rank, the University does not (by policy) rank its students or graduates. Recognition of students includes: The President's Award (one senior); The Provost's Award (one senior); Special Service-Student Affairs Award (one senior); Outstanding Fall Graduate Award (one senior); Outstanding Student Awards (one senior from each College/School); American Association of University Women (AAUW) Award (senior woman). Other awards include Special Service Award for Exceptionally Challenged Students, Charles W. Fisher Award and the Colorado Engineering Council Award.

In addition to annual awards, students with outstanding academic achievements are recognized by being named on the University's Honor Lists. The President's Honor List contains the names of students who, at the time of computation, have achieved a cumulative

GPA of 3.85 or higher. The Provost's Honor List contains the names of students who, at the time of computation, have achieved a cumulative GPA of between 3.50 and 3.84, inclusively. Computation will occur initially when the student has completed between 30 and 60 credits at MSU Denver, then again between 60 and 90 credits, and finally after more than 90 credits. Honors will only be computed three times in a student's academic life at the University. Questions should be directed to the Office of Academic Affairs at 303-615-1900.

Graduation honors are awarded to students who have demonstrated superior academic ability in their baccalaureate degree while attending MSU Denver. Honors designations are determined according to the following criteria:

- Summa Cum Laude - Top five percent of graduates within each school with cumulative MSU Denver GPA of no less than 3.65.
- Magna Cum Laude - Next five percent of graduates within each school with cumulative MSU Denver GPA of no less than 3.65.
- Cum Laude - Next five percent of graduates within each school with cumulative MSU Denver GPA of no less than 3.65.

To determine each honors category, GPAs from the previous spring semester graduates are arranged in rank order. This rank ordering is then used to determine the honors category thresholds for the following fall, spring and summer graduates. The current rankings are located on the commencement website.

The honors designation is calculated twice: once for the commencement ceremony; and again at the end of the final semester for the official designation.

## Commencement Ceremony

To qualify for graduation honor recognition at the commencement ceremony, a student must have the specified GPA and must have completed a minimum of 50 semester hours of academic credit at MSU Denver by the end of the term of graduation. UCD Pooled classes and other transfer credits are not considered when determining honors. Recognition at the commencement ceremony does not guarantee final honors designation on the official record. Honors announced at the commencement ceremony will be based upon a preliminary calculation not including grades from the term of graduation.

Students who qualify for recognition at the ceremony will be sent a letter from the dean's office of the School in which their major is located. This letter authorizes students to purchase honor cords at the time they rent their caps and gowns.

Graduates with an Individualized Degree Program major will be identified for honors purposes within the School most prominent in their major.

## Official Honors Designation

Grades earned for the graduating term will affect honors. GPAs are not rounded up (for example: a GPA of 3.149 is not rounded to

3.15). The Official Honors designation will be calculated following the processing of final grades. This recalculation will take into consideration any grade changes submitted to the Registrar's Office during your graduating term. Only the official honors designation is added to the final transcript and diploma. A student must maintain the specified GPA and must complete a minimum of 50 semester hours of academic credit at MSU Denver by the term of graduation. UCD Pooled classes and other transfer credits are not considered when determining honors.

Honors designations are added to the student's official academic record; no other notification will be sent. For additional information regarding graduation honors, contact the Office of Academic Affairs at 303-615-1900.

## Last Date of Attendance

Faculty who report a "U," "UE," or "F" grade to a student for any reason will report the student's last date of attendance when entering grades online.

For reporting purposes, the last date of active participation in the class will be considered the last date of attendance, which must be one of the following:

1. Physically attending or participating in class (such as a class activity)
2. Submitting an academic assignment
3. Taking a quiz or exam, interactive tutorial, or computer-based instruction
4. Attending a school-assigned study group
5. Participating in online discussions about academic matters and/or initiating contact with faculty to ask questions about subject matter

Active participation does not include:

6. Logging into an online course without active participation
7. Academic counseling

If a student never attended class, the date of the first day of class will be reported as the last date of attendance.

## Pass/Fail Option

The pass/fail option encourages students to venture out of their major and minor fields and thereby broaden their educational experience. A student must declare interest in the pass/fail option no later than census date. For specific deadlines, see the Academic Calendar. Deadlines differ proportionally for courses offered during part of semester, including late-start and weekend courses. Students should refer to the Part-of-Term dates published by the Office of the Registrar to review drop deadlines for individual courses. Students must declare interest in the pass/fail option by contacting the Office of the Registrar and completing the Request for Pass/Fail Option. Once approved, the request for the pass/fail option is irrevocable. A student who requests the option and later is declared ineligible will receive written notification from the Office of the Registrar.

Students who have completed at least one MSU Denver course with at least a 2.0 cumulative GPA may choose to be evaluated for a certain course on a pass/fail basis rather than by a letter grade. Major,

minor, General Studies and other courses required for a degree and courses for teacher licensure may NOT be taken on a pass/fail basis. Self-paced courses may NOT be taken under the pass/fail option. Maximum graduation credit for courses taken using the pass/fail option is 18 credit hours earned in no more than six courses and limited to one course per semester or part-of-term. Course work must be graded to determine if it is pass or fail.

The "pass" grade (P) is not computed in and will have no effect on the GPA; the "fail" grade is equivalent to the grade of "F" and is computed in and will have an effect on the student's GPA. The "pass" grade (P) is equivalent to the grade of "D-" or better. Pass/fail courses fall under the same withdrawal guidelines and deadlines as other courses in the institution, whether those guidelines and deadlines are established university-wide or by individual schools or departments.

The instructor will assign and record the pass/fail grade on the final grade list that identifies students electing and eligible for pass/fail grading. Some institutions do not accept credit in transfer for courses in which a "pass" grade is given. Therefore, students who plan to transfer or take graduate work should determine whether the institution of their choice would accept the credit before registering for courses under the pass/fail option. Additionally, the student is responsible for ensuring that the course is not a major, minor or General Studies requirement.

## Posthumously Awarded Degrees

Metropolitan State University of Denver will award a posthumous degree to a deceased student who had maintained good academic and financial standing without a significant disciplinary incident. Any party interested in seeking a posthumous degree will contact the Dean of the College or School in which the deceased student's program resided. Upon final approval of the Provost, the name of the deceased student will be announced at commencement as a Posthumous Degree and a plaque will be given to a person designated by the family.

If it is determined that the student was enrolled in their final courses sufficient to meet the University's graduation requirements, and therefore would have earned their degree had they successfully completed the last semester of enrollment, the degree will be counted as an earned degree within University completion counts.

If it is determined that the student was not enrolled in their final courses sufficient to meet the University's graduation requirements, and therefore would not have been granted a degree had they successfully completed the last semester of enrollment, the Office of the Registrar will expunge the academic record during the semester of the student's death.

## Repeated Courses

Students may enroll in an individual, MSU Denver course a maximum of two times, unless the course is designated as repeatable. The department offering the course may approve additional attempts. A course for which a student has received an administrative withdrawal (AW) does NOT count as an enrollment attempt. All other grades and notations count toward the maximum number of enrollment attempts.

A repeatable course is defined as a course taken for additional credit toward graduation requirements. Examples include field experiences, internships, music ensembles, and theater presentations. Some departments place limits on the total number of credits that students may earn in a repeatable course. If a limit applies, the maximum number of credits permitted is identified in the course notes in the catalog and class schedule.

## Warning/Probation/Suspension Policy

### Academic Satisfactory Progress/Good Standing

A student is deemed to be making satisfactory progress toward his or her academic goal if the student maintains a cumulative GPA of 2.0 or higher. This student is deemed to be in academic good standing with the institution. However, other academic standards may apply to specific programs. A student must satisfy those other academic standards in order to be deemed in academic good standing with that program. See information on the program of interest to determine specific standards for that program.

### Academic Warning Status

A student in good standing whose cumulative GPA falls below 2.0 will be on academic warning status with the institution during his or her next semester. A student will be removed from this warning status and returned to good standing if he or she achieves a cumulative GPA of at least 2.0 at the end of his or her semester on warning status. More restrictive standards may apply to certain programs or schools. See information on the program of interest.

### Academic Probation

A student who fails to achieve a cumulative GPA of at least 2.0 at the end of his or her semester on warning status will be put on academic probation with the institution during his or her next semester at MSU Denver. A student will be on academic probation as long as he or she has a cumulative GPA below 2.0, but is making progress toward good standing as explained below and has not been on academic probation for more than three semesters. Other conditions may apply to given programs or schools. See information on the program of interest.

A student is removed from academic probation and is in good standing the semester after achieving a cumulative GPA of at least 2.0. During any semester that a student is on academic probation, the student must make progress toward good standing with the institution by taking all of the following actions:

- achieve a semester GPA of 2.2 or higher
- register and complete a minimum of 3 but no more than 12 semester hours (3 to 6 semester hours for summer semester)
- take required activities as negotiated with the director of Student Intervention Services (may include certain classes, probationary tutorial, repeated courses, tutoring or other activities)

While on academic probation, a student may pre-register for the first semester following the academic warning status semester, but is

prohibited from pre-registering any other semester. For subsequent academic probation status semesters, a GPA of at least 2.2 must be verified prior to registration. If a 2.2 semester GPA is not obtained, the student will be placed on Academic Suspension.

### **Academic Suspension**

A student on academic probation not making progress toward good standing will be prohibited from registering for one calendar year from the date of suspension. Appeal of suspension for this reason will be submitted to the Associate Director, Advising Intervention Services and is due by the Monday prior to tuition deadline for the anticipated semester. Students that do not submit an appeal by the deadline who have registered for the anticipated semester will be dropped from their courses. The Associate Director will deliver the appeal materials to the Student Academic Review Committee, which will review the appeal and notify the student of its decision. A student may appeal a suspension only two times in his or her academic career at the University.

A student making progress toward good standing, whose cumulative GPA remains below a 2.0 after three or more semesters on probation, will have his or her academic progress reviewed each semester by the Student Academic Review Committee. The committee will determine whether the student should be placed on suspension. In both cases, the decision of the Student Academic Review Committee is final.

Any student returning to the University after the one-calendar-year suspension must reapply and will be re-admitted on academic probation with the institution. For these students, all probation rules outlined above will apply.

A student who is suspended for a second time will be re-admitted only if he or she has successfully completed an associate degree program from a community college after suspension from MSU Denver or can demonstrate to the Student Academic Review Committee that chances for successful completion of an educational program are greatly improved.

Contact Student Intervention Services at 303-605-5644 for further information.

# Admission Requirements

Metropolitan State University of Denver uses two categories to classify applicants: those who are 19 years old and younger and those who are 20 years old and over. This includes U.S. citizens, permanent residents, asylees/refugees and non-citizens. Based on the University's modified, open admission policy, each category, including International Students, follows its own admissions requirements and procedures.

MSU Denver students who have not attended the University for three consecutive semesters must submit an application for readmission. For more information, see "Admission of Previously Enrolled Students" in this catalog.

For information regarding admission to MSU Denver, click on a link to be taken to the entry below.

- [Application Deadline](#)
- [Applicants 19 Years Old or Younger](#)
- [Applicants 20 Years of Age or Older](#)
- [Application Instructions](#)
- [Admission of Previously Enrolled \(Readmit\) Students](#)
- [Admission of Non-degree-seeking Students](#)
- [Admission of International Students](#)
- [Admission Notification](#)
- [College Credit in High School](#)
- [Rescinding Admission to MSU Denver](#)
- [Transfer Services](#)
- [Tuition Classification](#)
- [Western Undergraduate Exchange \(WUE\)](#)

## Application Deadline

The application deadline is at least one to two months before the start of the semester. To find out the exact application deadline date for your intended term of enrollment, please visit [msudenver.edu/admissions](http://msudenver.edu/admissions). For the best possible selection of courses, students are advised to apply early. Refer to the Academic Calendar for important dates.

## Applicants 19 Years Old or Younger

Applicants who are 19 years old or younger on September 15 for either summer semester or fall semester, or on February 15 for spring semester, will be classified as traditional applicants. They will be considered for admission using the requirements described below. Note: to be eligible for admission, students must be at least 16 years old on the first day of the semester and must have either graduated from high school or received a General Education Development (GED) certificate.

## First-Time College Students

- Applicants will be considered for admission based on a holistic review approach that is primarily focused on the following three factors:
  - Academic Record: Cumulative high school GPA, academic rigor
  - ACT and/or SAT test scores
  - Higher Education Admission Requirements (HEAR)
  - Additional factors: Other factors that may influence a student's academic performance will also be considered; e.g. the student's involvement in high school and community activities.
- Please review the University's average admitted student profile:

Mid-50% GPA Range of Students Admitted (4.0 scale - includes weighted GPA)	Mid-50% ACT Range of Students Admitted (composite score)	Mid-50% SAT Range of Students Admitted (Evidence Based Reading and Writing and Math)
2.61-3.41	18-23	1010-1200

- Applicants who fall below or on the lower end of one or more of these ranges are strongly encouraged to submit letters of recommendation and a personal statement and must complete their application files by the stated Admissions Review Deadline.
- Applicants must request that the following credentials be sent directly to the Office of Admissions from the high school or testing agency before the start of the initial semester of enrollment at MSU Denver:
  - ACT or SAT test results
  - Official high school transcript with GPA and graduation date
- This information may be submitted at the end of the sixth, seventh, or eighth semester of high school, but an official, final transcript with date of graduation is required before the start of the initial semester of enrollment. Students should request the transcript and verify that the high school record with date of graduation has been received by the Office of Admissions. Degree-seeking students will not be permitted to register for a second semester nor will any financial aid funds be dispersed until after this official credential is received.
- Applicants who have not graduated from high school but have passed and received the Colorado General Educational Development (GED) certificate with a score of 145 or higher on all four sections, or its equivalent will be accepted. ACT or SAT test results are not required with a GED, but if taken in the last five years of the semester start date, are highly recommended for advising and course placement purposes. Official GED certificates must be received from the testing agency by the Office of Admissions before an applicant can be accepted.

## College Transfers

- Applicants with 24 or more *transferable* semester hours completed will be offered admission. Students with fewer than 24 hours will be considered on an individual basis, based on high school GPA, ACT or SAT scores and college work completed.
- Applicants must request that the following credentials be sent directly to the Office of Admissions from the high school, testing agency and/or college or university:
  - ACT or SAT test results
  - Official high school transcript with GPA or Official GED scores
  - Official transcript from each college or university attended or currently attending

## Applicants 20 Years of Age or Older

Applicants who are 20 or older on September 15 for either summer semester or fall semester, or on February 15 for spring semester, will be considered for admission using the requirements described below.

### Freshmen (first-time college students)

- Applicants will be admitted to MSU Denver by indicating on the application for admission they have graduated from high school or have earned an official GED (General Educational Development) certificate or the equivalent. GEDs issued through the military will be considered on an individual basis.
- The ACT or SAT is not required for admission but, if taken within five years of the semester start date, is highly recommended for advising and course placement purposes.

### College Transfers

- Applicants 20 years of age and older will be admitted to MSU Denver, regardless of their cumulative college GPA, by indicating on the application for admission they have graduated high school or earned an official GED (General Educational Development) certificate or its equivalent.
- In place of these credentials, official college transcripts from each institution of higher education attended showing completion of 24 or more transferable semester credit hours with grades of "C-" or better will be accepted. College transfer students should request to have college transcripts sent directly to the Office of the Registrar for transfer credit evaluation. Degree-seeking applicants are required to have all college and university transcripts on file to receive a complete evaluation.
- The ACT or SAT is not required for admission but, if taken within five years of the semester start date, is highly recommended for advising and course placement purposes.

## Application Instructions

Applications for Admission are considered in the order in which they are received each semester. All credentials received by the University become the property of MSU Denver and will not be returned to the student. It is the responsibility of the applicant to notify the Office of Admissions of any changes to the application prior to the first day of

classes. If changes are not reported to the Office of Admissions, the registration process could be delayed for subsequent semesters. Failure to report academic changes may result in rejection, dismissal and/or loss of credit. International applicants seeking to study on F-1 student visa should refer to the Admission of International Students section.

To apply for admission:

- Applications can be submitted online at [msudenver.edu/admissions](http://msudenver.edu/admissions) or are available from the Office of Admissions located in the Jordan Student Success Building, Room 180 at 890 Auraria Parkway, Denver, CO 80204. Applications may be mailed to MSU Denver Admissions, Campus Box 16, P.O. Box 173362, Denver, CO 80217-3362. You may call the Office of Admissions at 303-556-3058 with any questions.
- A \$25 nonrefundable application fee is required with the Application for Admission. Readmit applicants are not required to submit an application fee.
- It is the student's responsibility to request that all required official credentials be sent directly from the issuing institution or agency to the Office of Admissions. Hand-carried documents delivered in a sealed envelope will also be accepted.
- Although an applicant's college record may be summarized on one transcript, an official transcript from each institution attended is required.
- For information on obtaining records and receiving credit for Advanced Placement (AP), International Baccalaureate (IB), the College-Level Examination Program (CLEP) and military training or other training, see the Alternative Credit Options section.
- The Application for Admission and all credentials received by the University will be valid for two semesters beyond the term of application. After this time the files will no longer be maintained for applicants who do not complete their application, and for applicants who were accepted but did not enroll. Applicants wishing to attend MSU Denver after this period must submit a new application, application credentials that were not submitted and are outstanding, and the \$25 application fee.
- Applicants will be notified in writing of their application status within two to three weeks.

## Admission of Previously Enrolled (Readmit) Students

Readmit students are defined as individuals who have previously enrolled and have received a grade or grade notation at the University but have not been in attendance at MSU Denver for three consecutive semesters, including summer. Readmit students should:

- Submit a completed Application for Admission. *No application fee is required for readmission.*
- Submit transcripts from institutions attended since last attending MSU Denver (if degree-seeking).

If the student was not previously degree-seeking, then the student must submit transcripts from all institutions attended.

Readmit students who originally attended MSU Denver prior to 1998 are required to resubmit all credentials. In addition, all students who have not submitted final, official high school transcripts or an official GED report must also submit these credentials.

## Admission of Non-degree-Seeking Students

The non-degree-seeking student classification meets the needs of students who wish to take college courses, but who do not currently intend to work toward a baccalaureate degree at MSU Denver. With the exception of high school students who have completed the concurrent enrollment approval process, non-degree students must have graduated from high school or received a GED to qualify for admission. Non-degree students are not eligible for financial aid, nor will any college transcripts submitted be evaluated for transfer credit. Students may change to degree-seeking status by completing a Status Change Request form, located at [msudenver.edu/admissions/forms](http://msudenver.edu/admissions/forms), and requesting that all required official credentials be mailed directly from the issuing institution or agency to the Office of Admissions.

## Admission of International Students

Applicants who are current F-1 visa holders seeking to transfer or who are seeking initial F-1 student status need to submit the online Application for Admission. In addition, they are required to submit:

1. A minimum of an official high school transcript/diploma that is comparable to a U.S. high school transcript/diploma. Any high school credential issued in a language other than English must be accompanied by a word-for-word certified English translation. This requirement is waived if the student can transfer 24 or more college credits to MSU Denver. Students must submit official college transcripts to qualify. For non-U.S. college/university transcripts, a professional course by course translation and evaluation completed by a professional transcript evaluation service, in addition to the official transcript(s), will be required. The service agency must be a member of the National Association of Credential Evaluation Services (NACES.)
2. English language proficiency as determined by the Office of Admissions.
3. Documents demonstrating sufficient financial support to cover the costs of attending the University for one academic year as determined by the Office of Admissions.
4. Travel documents and proof of nonimmigrant status as requested by the Office of Admissions.

Application deadlines for F-1 international students are typically earlier than those for domestic applicants. Please refer to the Office of International Admissions website for more information.

## Admission Notification

Once admitted, students will be mailed and emailed instructions regarding their admissions, course registration and other relevant information. All incoming degree seeking students new to MSU

Denver are required to attend a New Student Orientation session. After orientation, first-time college students are also required to meet with an academic advisor. Depending upon a student's performance on the ACT or SAT, placement tests may also be required and should be completed prior to attending orientation. Students denied admission may appeal the decision by submitting a letter of appeal to the Office of Admissions, along with new and compelling academic information, letters of recommendation and other supportive documentation.

## College Credit in High School

Through MSU Denver's College Credit in High School program, students can earn college credits while still in high school. Students can get a jump start on college, saving families and their students time and money. MSU Denver offers two options for students who meet their high school's standards and MSU Denver's course prerequisites:

- Dual enrollment students can take college-level classes while in high school, either at MSU Denver or at their high school (if available).
  - Agreements between MSU Denver and schools vary, including whether a school assists with the cost of tuition and fees. Students at schools who do not have an agreement with MSU Denver can opt to self-pay tuition and fees.
- ASCENT (Accelerating Students through Concurrent Enrollment) is a fifth-year high school program where selected students can take classes at MSU Denver tuition-free the Fall and Spring semesters following their senior year.

To get started, students should discuss College Credit in High School options and eligibility with their high school counselor, and then contact the College Credit in High School program at: [highschool@msudenver.edu](mailto:highschool@msudenver.edu).

For additional information, visit the College Credit in High School website: <https://www.msudenver.edu/innovative-lifelong-learning/collegecreditinhighschool/>.

## Rescinding Admission to MSU Denver

If MSU Denver discovers that a student knowingly omitted information, provided false information on the application for admission, or submitted fraudulent documents, the Office of Admissions may rescind the student's acceptance to the University.

### Appeal Process

The student may appeal to the Associate Vice President of Enrollment Management within five working days of the date of the decision. Such appeals shall be in writing and the student will be notified in writing of the outcome of the appeal within 15 working days. The decision of the Associate Vice President of Enrollment Management will be final.

## Transfer Services

The Office of Transfer Services offers assistance to students transferring from other institutions to MSU Denver. Specific services provided include the following:

- Assistance with admission requirements and the application process;
- Weekly visits to local community colleges in the Denver metro area;
- Visits to other Colorado community colleges once or twice annually;
- Guidance on selecting appropriate transferable courses;
- Preliminary transcript evaluation;
- Transfer student scholarship information;
- Referral assistance to academic departments;
- Resolution of transfer course issues.

Transfer counselors are available for walk-in counseling. Counselors work closely with transcript evaluators to provide students with information about transfer credits and how those credits may be applied to their degree programs. General questions regarding a transfer evaluation or preliminary evaluation should be referred to the Office of Admissions/Transfer Services, Jordan Student Success Building, Room 180, or [transferquestions@msudenver.edu](mailto:transferquestions@msudenver.edu). For questions about Transfer Credit Evaluation, please see the Registration and Records section of the catalog.

## Tuition Classification

A student is classified as an in-state or out-of-state student for tuition purposes at the time of admission. This classification is based on information supplied by the student on the application for admission and is made in accordance with the Colorado Tuition Classification Law (Title 23, Article 7, of the Colorado revised Statutes). Once determined, a student's tuition classification status remains unchanged unless clear and convincing evidence that a change should be made is presented. If a student believes that he or she is entitled to in-state status, the student must submit their request, along with evidence of in-state status to the Office of Admissions by the published deadline dates. Details on University policies and procedures as they pertain to the Colorado Tuition Law, the forms and deadlines can be found at [msudenver.edu/admissions/residency](http://msudenver.edu/admissions/residency).

The tuition classification statute requires that, in order to qualify for in-state status, a student (or the parents or legal guardian of the student in the case of students under 23 years of age who are not emancipated) must have been domiciled in Colorado for one year or

more immediately preceding the first day of the semester for which such classification is sought.

Domicile for tuition purposes requires two inseparable elements: (1) a permanent place of habitation in Colorado and (2) intent to remain in Colorado with no intent to be domiciled elsewhere. Some examples of connections with the state that provide objective evidence of intent are: payment of Colorado state income tax as a Colorado resident, permanent employment in Colorado, ownership of residential real estate property in Colorado, compliance with laws imposing a mandatory duty on any domiciliary of the state, such as the drivers' license law and the vehicle registration law and registration to vote. Other factors unique to the individual can also be used to demonstrate the requisite intent.

Any questions regarding the tuition classification law should be directed to the Tuition Classification Officer with the Office of the Admissions. In order to qualify for in-state status for a particular semester, the student must prove that domicile began no later than one year prior to the first day of classes for that semester. Refer to the Academic Calendar for deadlines to submit the proper request.

## Western Undergraduate Exchange (WUE)

Through the Western Undergraduate Exchange (WUE), students in western states (AK, AZ, CA, CO, HI, ID, MT, NV, NM, ND, OR, SD, UT, WA, WY, Guam, and the Commonwealth of the Northern Marianas Islands - CNM) may enroll in many out-of-state, two-year and four-year college programs at a reduced tuition level: 150 percent of the institution's regular resident tuition. WUE tuition is considerably less than non-resident tuition. At MSU Denver, WUE students pay 150 percent of the student's share of Colorado resident tuition plus mandatory fees.

WUE is open to new students who meet both MSU Denver admission and WUE program requirements. New students applying for the WUE program must submit an application for admission by the admissions application deadline and a WUE application by the published census date of the student's first semester. The student may be required to provide evidence of residency in one of the qualifying states. If the student is under 23 years of age, evidence of residency for both parent/guardian and student may be required. Students who are accepted in the program are ineligible to petition for in-state tuition during their time of attendance at MSU Denver. The WUE program is not available to current MSU Denver students.

# Alternative Credit Options/Prior Learning Assessment

The University may grant credit for prior learning, depending on the academic program, as verified by the following assessment methods:

1. National standardized tests, including:
  - Advanced Placement Examinations (AP)
  - College-Level Examination Program (CLEP)
  - DSST/DANTES
  - International Baccalaureate (IB)
2. Departmental Credit by Examination
3. Portfolio Assessment
4. Credit for Military Training, Military Occupational Specialties, and Other Training Programs Evaluated by the American Council on Education (ACE)
5. Credit for Other training programs

Prior learning credit does not count toward semester hour residency requirements. Regardless of credit granted for prior learning, all students must complete the minimum semester hour residency requirements. Therefore, the maximum number of prior learning credit hours is limited by these residency requirements. Please review

the semester hour residency requirements before planning to use any of these options. See Degree and Certificate Requirements.

Each academic department determines the applicability of prior learning assessment to courses in the academic discipline and for the academic major and minor. Students must meet with an academic advisor in their program as well as with the Prior Learning Specialist to determine how much, if any, credit for prior learning may apply to a particular degree program. The academic department in which the course in question resides will make the final determination on any credit granted for prior learning.

Once prior learning is assessed and credit is awarded, the total number of those credits applicable to a degree will not be reduced unless the student repeats already-awarded credit at MSU Denver or interrupts MSU Denver enrollment for three or more consecutive semesters and readmits to the University under more restrictive Prior Learning Assessment evaluation policies.

For advising assistance with CLEP examinations, departmental credit by examination, and portfolio assessment, students may contact the Prior Learning Specialist, Registrar's Office, Student Success Building Counter 3 (890 Auraria Parkway Suite 160), 303-605-5574.

## Advanced Placement Examinations

Students who have performed satisfactorily in special, college-level courses while in high school, and who have passed appropriate Advanced Placement (AP) examinations conducted by the College Entrance Examination Board may have official scores submitted directly to the Office of the Registrar. This office, in consultation with the appropriate department chair, determines the amount and nature of the credit and/or advanced placement granted. Students should contact [collegeboard.com](http://collegeboard.com) or 888-225-5427 to request official AP scores; MSU Denver's AP code is 4505.

AP scores that are equivalent to a course with the Oral Communication General Studies designation will receive Oral Communication General Studies credit.

### Course Credit Awards for Advanced Placement Exams

Subject Area	Exam Title	Score Required	Equivalent Course(s)	Credits Awarded	General Studies Requirement Satisfied	GT Pathways Category
Arts	Art History	3	ARTH 1600 - World Art I: Art Prior to 1400	3	Arts and Humanities, Global Diversity	None
		4 or 5	ARTH 1600 - World Art I: Art Prior to 1400 ARTH 1700 - World Art II: Art 1400-1900	6	Arts and Humanities, Global Diversity	None
Computer Science	Computer Science (A)	3, 4, or 5	CS 1050 - Computer Science 1	4	None	None
	Computer Sciences (AB)	3	CS 1050 - Computer Science 1	4	None	None
		4 or 5	CS 1050 - Computer Science 1 CS 2050 - Computer Science 2	8	None	None
	Computer Science Principles	3, 4, or 5	CS 1030 - Computer Science Principles	4	None	None
English	English Language and Composition	3, 4, or 5	ENG 1010 - Composing Arguments	3	Written Communication	CO1
	English Literature and Composition	3	ENG 1100 - Introduction to Literature	3	Arts and Humanities	AH2
		4 or 5	ENG 1010 - Composing Arguments ENG 1100 - Introduction to Literature	6	Written Communication, Arts and Humanities	CO1 and AH2
History	United States History	3	HIS 1210 - American History to 1865	3	Historical	HI1
		4 or 5	HIS 1210 - American History to 1865 HIS 1220 - American History since 1865	6	Historical	HI1
	European History	3	HIS 8000 (3)	3	Historical, Global Diversity	HI1
		4 or 5	HIS 1045 - Europe, Renaissance to the Present HIS 8000 (3)	6	Historical, Global Diversity	HI1
	World History	3	HIS 1030 - World History to 1500	3	Historical, Global Diversity	HI1

		4 or 5	HIS 1030 - World History to 1500 HIS 1040 - World History since 1500	6	Historical, Global Diversity	HI1
<b>Languages</b>	<b>Chinese Language and Culture</b>	3	CHI 1020 - Elementary Chinese II	5	Arts and Humanities, Global Diversity	None
		4	CHI 1020 - Elementary Chinese II CHI 8000 (3)	8	Arts and Humanities, Global Diversity	None
		5	CHI 1020 - Elementary Chinese II CHI 8000 (6)	11	Arts and Humanities, Global Diversity	None
	<b>French Language and Culture</b>	3	FRE 1020 - Elementary French II FRE 2110 - French Reading and Conversation	8	Arts and Humanities, Global Diversity	None
		4	FRE 1020 - Elementary French II FRE 2010 - Intermediate French I FRE 2110 - French Reading and Conversation	11	Arts and Humanities, Global Diversity	None
		5	FRE 1020 - Elementary French II FRE 2010 - Intermediate French I FRE 2110 - French Reading and Conversation	14	Arts and Humanities, Global Diversity	None
	<b>French Literature and Culture</b>	3 or 4	FRE 1020 - Elementary French II FRE 2010 - Intermediate French I FRE 2110 - French Reading and Conversation	11	Arts and Humanities, Global Diversity	None
		5	FRE 1020 - Elementary French II FRE 2010 - Intermediate French I FRE 2020 - Intermediate French II FRE 2110 - French Reading and Conversation FRE 3010 - French as a Global Language	17	Arts and Humanities, Global Diversity	None
	<b>German Language and Culture</b>	3	GER 1020 - Elementary German II GER 2010 - Intermediate German I GER 2020 - Intermediate German II	11	Arts and Humanities, Global Diversity	None
		4	GER 1020 - Elementary German II GER 2010 - Intermediate German I	14	Arts and Humanities, Global Diversity	None

			GER 2020 - Intermediate German II GER 2110 - German Reading and Conversation			
		5	GER 1020 - Elementary German II GER 2010 - Intermediate German I GER 2020 - Intermediate German II GER 2110 - German Reading and Conversation GER 2120 - German Civilization	17	Arts and Humanities, Global Diversity	None
<b>German Literature</b>		3	GER 1020 - Elementary German II GER 2010 - Intermediate German I GER 2020 - Intermediate German II	11	Arts and Humanities, Global Diversity	None
		4	GER 1020 - Elementary German II GER 2010 - Intermediate German I GER 2020 - Intermediate German II GER 2110 - German Reading and Conversation	14	Arts and Humanities, Global Diversity	None
		5	GER 1020 - Elementary German II GER 2010 - Intermediate German I GER 2020 - Intermediate German II GER 2110 - German Reading and Conversation GER 2120 - German Civilization	17	Arts and Humanities, Global Diversity	None
<b>Latin</b>	3, 4, or 5	LAS 8000 (5)	5	Arts and Humanities, Global Diversity	None	
<b>Italian Language and Culture</b>		3	ITA 1020 - Elementary Italian II	5	Arts and Humanities, Global Diversity	None
		4	ITA 1020 - Elementary Italian II ITA 2010 - Intermediate Italian I	8	Arts and Humanities, Global Diversity	None
		5	ITA 1020 - Elementary Italian II ITA 2010 - Intermediate Italian I ITA 2020 - Intermediate Italian II	11	Arts and Humanities, Global Diversity	None
<b>Japanese Language and Culture</b>	3	JPS 1020 - Elementary Japanese II	5	Arts and Humanities, Global Diversity	None	

		4	JPS 1020 - Elementary Japanese II JPS 2010 - Intermediate Japanese I	8	Arts and Humanities, Global Diversity	None	
		5	JPS 1020 - Elementary Japanese II JPS 2010 - Intermediate Japanese I JPS 2020 - Intermediate Japanese II	11	Arts and Humanities, Global Diversity	None	
	<b>Spanish Language and Culture</b>	3	SPA 1020 - Elementary Spanish II SPA 2010 - Intermediate Spanish I SPA 2020 - Intermediate Spanish II	11	Arts and Humanities, Global Diversity	None	
		4	SPA 1020 - Elementary Spanish II SPA 2010 - Intermediate Spanish I SPA 2020 - Intermediate Spanish II SPA 2110 - Spanish Reading and Communication I	14	Arts and Humanities, Global Diversity	None	
		5	SPA 1020 - Elementary Spanish II SPA 2010 - Intermediate Spanish I SPA 2020 - Intermediate Spanish II SPA 2110 - Spanish Reading and Communication I SPA 2120 - Spanish Reading and Communication II	17	Arts and Humanities, Global Diversity	None	
	<b>Spanish Literature and Culture</b>	3	SPA 1020 - Elementary Spanish II SPA 2010 - Intermediate Spanish I SPA 2020 - Intermediate Spanish II	11	Arts and Humanities, Global Diversity	None	
		4 or 5	SPA 1020 - Elementary Spanish II SPA 2010 - Intermediate Spanish I SPA 2020 - Intermediate Spanish II SPA 2110 - Spanish Reading and Communication I SPA 2120 - Spanish Reading and Communication II	17	Arts and Humanities, Global Diversity	None	
	<b>Mathematics</b>	<b>Calculus AB</b>	3, 4, or 5	MTH 1410 - Calculus I	4	Qualitative Literacy	MA1
		<b>Calculus BC</b>	3	MTH 1410 - Calculus I	4	Qualitative Literacy	MA1
		<b>Calculus BC</b>	4 or 5	MTH 1410 - Calculus I MTH 2410 - Calculus II	8	Qualitative Literacy	MA1

	<b>Statistics</b>	3, 4, or 5	MTH 1210 - Introduction to Statistics	4	Qualitative Literacy	MA1
<b>Natural and Physical Sciences</b>	<b>Biology</b>	3, 4, or 5	BIO 1080 - General Biology I BIO 1081 - General Biology II BIO 1090 - General Biology Laboratory I BIO 1091 - General Biology Laboratory II	8	Natural and Physical Sciences	SC1
	<b>Chemistry</b>	3	CHE 1800 - General Chemistry I CHE 1801 - General Chemistry I Laboratory	5	Natural and Physical Sciences	SC1
		4 or 5	CHE 1800 - General Chemistry I CHE 1801 - General Chemistry I Laboratory CHE 1810 - General Chemistry II CHE 1811 - General Chemistry II Laboratory	10	Natural and Physical Sciences	SC1
	<b>Environmental Science</b>	3, 4, or 5	ENV 1200 - Introduction to Environmental Science	3	Natural and Physical Sciences	SC2
	<b>Physics B</b>	3, 4, or 5	PHY 2010 - College Physics I PHY 2020 - College Physics II PHY 2030 - College Physics I Laboratory PHY 2040 - College Physics II Laboratory	10	Natural and Physical Sciences	None
	<b>Physics C Mechanics</b>	3, 4, or 5	PHY 2311 - General Physics I PHY 2321 - General Physics I Laboratory	5	Natural and Physical Sciences	SC1
	<b>Physics C Electricity and Magnetism</b>	3, 4, or 5	PHY 2331 - General Physics II PHY 2341 - General Physics II Laboratory	5	Natural and Physical Sciences	SC1
	<b>Physics 1</b>	3, 4, or 5	PHY 2010 - College Physics I PHY 2030 - College Physics I Laboratory	5	Natural and Physical Sciences	SC1
	<b>Physics 2</b>	3, 4, or 5	PHY 2020 - College Physics II PHY 2040 - College Physics II Laboratory	5	Natural and Physical Sciences	SC1
<b>Social and Behavioral Sciences</b>	<b>Economics: Microeconomics</b>	3, 4, or 5	ECO 2020 - Principles of Microeconomics	3	Social and Behavioral Sciences	SS1 and SS2
	<b>Economics: Macroeconomics</b>	3, 4, or 5	ECO 2010 - Principles of Macroeconomics	3	Social and Behavioral Sciences	SS1

	<b>Human Geography</b>	3, 4, or 5	GEG 1300 - Introduction to Human Geography	3	Social and Behavioral Sciences	SS1
	<b>Government and Politics: United States</b>	3, 4, or 5	PSC 1010 - American National Government	3	Social and Behavioral Sciences	SS1
	<b>Government and Politics: Comparative</b>	3, 4, or 5	PSC 1010 - American National Government	3	Social and Behavioral Sciences	SS1
	<b>Psychology</b>	3, 4, or 5	PSY 1001 - Introductory Psychology	3	Social and Behavioral Sciences	None
<b>Music</b>	<b>Music Theory</b>	3, 4, or 5	MUS 1010 - Essential Music Theory Skills	3	None	None
<b>Philosophy</b>	<b>Philosophy</b>	3, 4, or 5	PHI 1010 - Introduction to Philosophy	3	Arts and Humanities	None

## College-Level Examination Program (CLEP)

The College Level Examination Program (CLEP) consists of a series of national standardized examinations. They are designed to assess non-accredited, college-level knowledge in several subject areas. Students are advised to check with their major departments for information on specific General Studies requirements that may not be met through the use of CLEP examinations.

- Credit earned through the English composition with essay, humanities, natural sciences, social sciences/history, and college mathematics examinations may be applied only to General Studies requirements. Credit earned through the other approved examinations may be applied toward any requirements for completing the degree, unless otherwise stated.
- CLEP examinations are recorded without reference to a letter grade and are not figured into the student's GPA. Credit earned through CLEP examinations does not count toward semester hour residency requirements. See Degree and Certificate Requirements.
- In order to have CLEP examination results evaluated, the student should send a copy of the official score report to: Metropolitan State University of Denver, Office of the Registrar, Campus Box 84, P.O. Box 173362, Denver, CO 80217-3362. To request an official CLEP score report, contact [collegeboard.com/clep](http://collegeboard.com/clep) or 800-257-9558. MSU Denver's CLEP code is 4505.
- All CLEP examinations will be subject to the statement of policy in place at the time the scores are submitted, not the policy in place at the time the examination was taken.
- Credit awarded through CLEP examinations at other colleges or universities will be re-evaluated at MSU Denver according to the MSU Denver policy in place at the time the test scores are submitted. Students are advised to have an official copy of their score(s) sent to the University in order to have that credit evaluated.
- Any exception to these policies must be approved through the Petition for Degree Exception. Information about filing an appeal through the Petition for Degree Exception is available from the Dean's Office of the College or School corresponding to the student's major.
- Failure to achieve the required score(s) listed will not be entered on the permanent record. However, a copy of the CLEP score report will be retained in the student's file.

Additional information about the content and format of CLEP examinations is available through the College Board website at [collegeboard.com/clep](http://collegeboard.com/clep). Examinations may be taken through MSU Denver's Office of Assessment and Testing located in the Tivoli Student Union, Room 347, 303 615-1700, [msudenver.edu/testing](http://msudenver.edu/testing). Other official testing centers can be found through the College Board website listed above.

### CLEP EXAMINATION STANDARDS

Subject Area	CLEP Exam	Equivalent Course(s)	Minimum Score for MSU Denver Credit	MSU Denver Credit	MSU Denver General Studies	GT Pathways Category
Business	Financial Accounting	ACC 2010 - Principles of Accounting I	50	3	None	None
	Information Systems	CIS 2010 - Foundations of Information Systems	50	3	None	None
	Introductory Business Law	MGT 2210 - Legal Environment of Business I	50	3	None	None
	Principles of Management	MGT 8900*	50	3	None	None
	Principles of Marketing	MKT 8900*	50	3	None	None
Composition and Literature	American Literature	ENG 2220 - American Literature: Civil War to Present	50	3	Arts and Humanities	AH2
	Analyzing and Interpreting Literature <sup>1</sup>	ENG 1100 - Introduction to Literature	50	3	Arts and Humanities	AH2
	College Composition	ENG 1010 - Composing Arguments ENG 1020 - Research and Argument Writing	50	6	Written Communication	CO1 and CO2
	College Composition Modular	ENG 1009 - Stretch Composing Arguments B	50	3	Written Communication	CO1

	<b>English Literature</b>	ENG 2330 - British Literature: Late 1700s to the Present	50	3	Arts and Humanities	AH2
	<b>Humanities</b>	LAS 8000	50	3	Arts and Humanities	AH1
<b>History and Social Sciences</b>	<b>American Government</b>	PSC 1010 - American National Government	50	3	Social and Behavioral Sciences	SS1
	<b>History of the United States I</b>	HIS 1210 - American History to 1865	50	3	Historical	HI1
	<b>History of the United States II</b>	HIS 1220 - American History since 1865	50	3	Historical	HI1
	<b>Human Growth and Development</b>	PSY 2210 - Psychology of Human Development	50	3	Social and Behavioral Sciences	SS3
	<b>Introduction to Educational Psychology</b>	PSY 8000	50	3	Social and Behavioral Sciences	SS3
	<b>Introductory Psychology</b>	PSY 1001 - Introductory Psychology	50	3	Social and Behavioral Sciences	SS3
	<b>Introductory Sociology</b>	SOC 1010 - People, Power, and Progress	50	3	Social and Behavioral Sciences	SS3
	<b>Principles of Macroeconomics</b>	ECO 2010 - Principles of Macroeconomics	50	3	Social and Behavioral Sciences	SS3
	<b>Principles of Microeconomics</b>	ECO 2020 - Principles of Microeconomics	50	3	Social and Behavioral Sciences	SS3
	<b>Social Science and History</b>	LAS 8000	50	3	Social and Behavioral Sciences	SS1
	<b>Western Civilization I: Ancient Near East to 1648</b>	HIS 8000	50	3	Historical, Global Diversity	HI1
	<b>Western Civilization II: 1648 to the Present</b>	HIS 8000	50	3	Historical, Global Diversity	HI1
<b>Science and Mathematics</b>	<b>Biology</b>	BIO 1030 - General Biology for Non-Majors	50	6	Natural and Physical Sciences	SC2
	<b>Chemistry</b>	CHE 1800 - General Chemistry I CHE 1810 - General Chemistry II	50	8	Natural and Physical Sciences	SC2
	<b>Natural Sciences</b>	BIO 1030 - General Biology for Non-Majors	50	6	Natural and Physical Sciences	SC2
	<b>Calculus</b>	MTH 1410 - Calculus I	50	4	Quantitative Literacy	MA1
	<b>College Algebra</b>	MTH 1110 - College Algebra for Calculus	50	4	Quantitative Literacy	MA1
	<b>College Mathematics</b>	MTH 1080 - Mathematics for Liberal Arts	50	3	Quantitative Literacy	MA1
	<b>Precalculus</b>	MTH 1400 - Precalculus Mathematics	50	4	Quantitative Literacy	MA1
<b>World Languages</b>	<b>French Language</b>	FRE 8000 (6) FRE 8001 (4)	50-58	10	None	None
	<b>French Language</b>	FRE 8000 (6) FRE 8001 (4)	59	13	Arts and Humanities	AH4

		FRE 8002 (3)				
<b>French Language</b>		FRE 8000 (6) FRE 8001 (4) FRE 8002 (3) FRE 8003 (3)	60 and up	16	Arts and Humanities	AH4
<b>German Language</b>		GER 8000 (6) GER 8001 (4)	50-59	10	None	None
<b>German Language</b>		GER 8000 (6) GER 8001 (4) GER 8002 (3)	60	13	Arts and Humanities	AH4
<b>German Language</b>		GER 8000 (6) GER 8001 (4) GER 8002 (3) GER 8003 (3)	61 and up	16	Arts and Humanities	AH4
<b>Spanish Language</b>		SPA 8000 (6) SPA 8001 (4)	50-62	10	None	None
<b>Spanish Language</b>		SPA 8000 (6) SPA 8001 (4) SPA 8002 (3)	63	13	Arts and Humanities	AH4
<b>Spanish Language</b>		SPA 8000 (6) SPA 8001 (4) SPA 8002 (3) SPA 8003 (3)	64 and up	16	Arts and Humanities	AH4
<b>Spanish with Writing</b>		SPA 8000 (6)	50-55	6	None	None
<b>Spanish with Writing</b>		SPA 8000 (6) SPA 8001 (4)	56-64	10	None	None
<b>Spanish with Writing</b>		SPA 8000 (6) SPA 8001 (4) SPA 8002 (3)	65-69	13	Arts and Humanities	AH4
<b>Spanish with Writing</b>		SPA 8000 (6) SPA 8001 (4) SPA 8002 (3) SPA 8003 (3)	70 and above	16	Arts and Humanities	AH4

**Examination scores are based on standards set by NTE/ETS and in consultation with the appropriate department chairperson.**

*\*MGT8900 is equivalent to MGT3000- Organizational Management, but counts as lower division.*

*\*MKT8900 is equivalent to MKT3000- Principles of Marketing, but counts as lower division.*

## DANTES Tests (DSST)

MSU Denver awards credit for Defense Activity for Nontraditional Educational Support (DANTES) Subject Standardized Tests (DSST). Credit may be awarded if the DANTES score is at the ACE (American Council on Education) minimum and the MSU Denver Academic Department approves the credit. To have a DANTES exam evaluated, a DANTES transcript or ACE transcript showing the exams taken and scores received must be submitted to the Office of the Registrar. To request a copy of your DANTES scores, please go to the following website:

<https://higher.ed.colorado.gov/get-credit-for-what-you-already-know>

For information on test credit, please visit the Colorado Department of Higher Education.

## International Baccalaureate

Students who complete the IB Diploma Program and the IB examinations are guaranteed admission to the University and are eligible to receive credit and advanced placement standing. To receive credit, a student must receive at least a score of four (4) on each IB examination and call 301-202-3025 or visit [ibo.org/informationfor/alumni/transcripts](http://ibo.org/informationfor/alumni/transcripts) to request that official scores be mailed directly to the Office of Admissions from the IB organization. For specific equivalencies, see the table below. Please contact the Office of the Registrar at 303-556-3991 for more information.

Students should consult with the appropriate department for further advising and with their major departments about acceptance of credits toward their majors.

IB scores that are equivalent to a course with the Oral Communication General Studies designation will receive Oral Communication General Studies credit.

Subject Area	Exam Title	Level of Exam	Subject Code	Course Code	Exam Score	MSU Denver Equivalent Course(s)	Credit Awarded	MSU Denver General Studies
Arts	Dance	Higher	DANCE	4-7H	4 to 7	Theatre 8000	3	None
	Theatre Arts	Higher	THE	4-7H	4 to 7	THE 2210 - Introduction to Theatre	3	Arts and Humanities
		Standard	THE	4-7S	4 to 7	THE 2210 - Introduction to Theatre	3	Arts and Humanities
	Film	Higher	FILM	4-7H	4 to 7	ENG 2860 - Introduction to Film and Media Studies	3	Arts and Humanities
		Standard	FILM	4-7S	4 to 7	ENG 2860 - Introduction to Film and Media Studies	3	Arts and Humanities
	Music	Higher	MUS	4-7H	4 to 7	MUS 1000 - Introduction to Music	3	Arts and Humanities
	Music Creating	Standard	MUSC	4-7S	4 to 7	MUS 1000 - Introduction to Music	3	Arts and Humanities
	Music Group Performing	Standard	MUSGP	4-7S	4 to 7	MUS 1000 - Introduction to Music	3	Arts and Humanities
Music Solo Performing	Standard	MUSSP	4-7S	4 to 7	MUS 1000 - Introduction to Music	3	Arts and Humanities	
Computer Science	Computer Science	Higher	CMPS	4-7H	4 to 7	CIS 1010 - Introduction to Computers, CIS 8000	6	None
		Standard	CMPS	4-7S	4 to 7	CIS 1010 - Introduction to Computers	3	None
Social and Behavioral Sciences	Social and Cultural Anthropology	Higher	ANT	4-7H	4 to 7	ANT 1310 - Introduction to Cultural Anthropology, ANT 8000	6	Social and Behavioral Sciences, Global Diversity

		Standard	ANT	4-7S	4 to 7	ANT 1310 - Introduction to Cultural Anthropology	3	Social and Behavioral Sciences, Global Diversity
	<b>Economics</b>	Higher	ECO	4-7H	4 to 7	ECO 2010 - Principles of Macroeconomics, ECO 8000	6	Social and Behavioral Sciences
		Standard	ECO	4-7S	4 to 7	ECO 8000	3	Social and Behavioral Sciences
	<b>Geography</b>	Higher	GEG	4-7H1	4 to 7	GEG 1300 - Introduction to Human Geography, GEG 1100 - Introduction to Physical Geography	6	Social and Behavioral Sciences, Global Diversity
		Standard	GEG	4-7S1	4 to 7	GEG 1300 - Introduction to Human Geography, GEG 1100 - Introduction to Physical Geography	3	Social and Behavioral Sciences, Global Diversity
	<b>Global Politics</b>	Higher	GPOL	4-7S	4 to 7	PSC 8000	3	Social and Behavioral Sciences, Global Diversity
		Standard	GPOL	4-7H	4 to 7	PSC 2240 - Global Challenges in the Twenty-First Century	3	Social and Behavioral Sciences, Global Diversity
	<b>Psychology</b>	Higher	PSY	4-7H	4 to 7	PSY 1001 - Introductory Psychology, PSY 8888	6	Social and Behavioral Sciences
		Standard	PSY	4-7S	4 to 7	PSY 1001 - Introductory Psychology, PSY 8888	6	Social and Behavioral Sciences
<b>Visual Arts</b>	<b>Art Design A</b>	Higher	ARTD	4-7H	4 to 7	ART 1101 - Studio Foundations: 2D, ART 8000	6	None
		Standard	ARTD	4-7S	4 to 7	ART 1101 - Studio Foundations: 2D	3	None
	<b>Art Visual</b>	Higher	ARTV	4-7H	4 to 7	ART 8000	6	None
		Standard	ARTV	4-7S	4 to 7	ART 8000	3	None
<b>Natural and Physical Sciences</b>	<b>Biology</b>	Higher	BIO	4H	4	BIO 1080 - General Biology I, BIO 1081 - General Biology II, BIO 1090 - General Biology Laboratory I, BIO 1091 - General Biology Laboratory II	8	Natural and Physical Sciences
		Higher	BIO	5-7H	5 to 7	BIO 1080 - General Biology I, BIO 1081 - General Biology II, BIO 1090 - General Biology Laboratory I, BIO 1091 - General Biology Laboratory II	8	Natural and Physical Sciences
		Standard	BIO	4-7S	5 to 7	BIO 1030 - General Biology for Non-Majors	4	Natural and Physical Sciences
	<b>Chemistry</b>	Higher	CHE	4-7H	4 to 7	CHE 1100 - Principles of Chemistry, CHE 1150 - Principles of Chemistry Laboratory, CHE 1010 - Chemistry and Society	8	Natural and Physical Sciences

		Standard	CHE	4-7S	4 to 7	CHE 1010 - Chemistry and Society	3	Natural and Physical Sciences	
	<b>Environmental Systems and Societies</b>	Standard	ENV	4-7S	4 to 7	ENV 1200 - Introduction to Environmental Science	3	Natural and Physical Sciences	
	<b>Physics</b>	Higher	PHY	4-7H	4 to 7	PHY 2010 - College Physics I, PHY 2020 - College Physics II	8	Natural and Physical Sciences	
		Standard	PHY	4-7S	4 to 7	PHY 1000 - Introduction to Physics	4	Natural and Physical Sciences	
<b>Foreign Language A1</b>	<b>French</b>	Higher	FRE	4-7H	4 to 7	FRE 3110 - Survey of French Literature I, FRE 3320 - Cinema in French for Advanced Conversation	6	None	
		Standard	FRE	4-7S	4 to 7	FRE 1010 - Elementary French I, FRE 1020 - Elementary French II	10	Oral Communication, Arts and Humanities, Global Diversity	
	<b>German</b>	Higher	GER	4-7H	4 to 7	GER 3010 - Third-Year German Conversation, GER 3210 - Survey of German Literature I	6	None	
		Standard	GER	4-7S	4 to 7	GER 1010 - Elementary German I, GER 1020 - Elementary German II	10	Oral Communication, Arts and Humanities, Global Diversity	
	<b>Spanish</b>	Higher	SPA	4-7H	4 to 7	SPA 3110 - Advanced Conversation, SPA 3250 - Introduction to Literary Studies in Spanish	6	None	
		Standard	SPA	4-7S	4 to 7	SPA 1010 - Elementary Spanish I, SPA 1020 - Elementary Spanish II	10	Oral Communication, Arts and Humanities, Global Diversity	
	<b>Japanese</b>	Higher	JPS	4-7H	4 to 7	JPS 8000	6	None	
		Standard	JPS	4-7S	4 to 7	JPS 8000	3	None	
	<b>Latin</b>	Higher	LATN	4-7H	4 to 7	MDL 8000	6		
		Standard	LATN	4-7S	4 to 7	MDL 8000	3		
	<b>Russian</b>	Higher	RUSN	4-7H	4 to 7	MDL 8000	6		
		Standard	RUSN	4-7S	4 to 7	MDL 8000	3		
	<b>Foreign Language B</b>	<b>French</b>	Higher	FRE B	4-5H	4 to 5	FRE 1010 - Elementary French I, FRE 1020 - Elementary French II	10	Oral Communication, Arts and Humanities, Global Diversity
Higher			FRE B	6-7H	6 to 7	FRE 1010 - Elementary French I, FRE 1020 - Elementary French II, FRE 2010 - Intermediate French I	13	Oral Communication, Arts and Humanities, Global Diversity	
Standard			FRE B	4S	4	FRE 1010 - Elementary French I	5	Oral Communication	
Standard			FRE B	5-6S	5 to 6	FRE 1010 - Elementary French I, FRE 1020 - Elementary French II	10	Oral Communication, Arts and Humanities, Global Diversity	

		Standard	FRE B	7S	7	FRE 1010 - Elementary French I, FRE 1020 - Elementary French II, FRE 2010 - Intermediate French I	13	Oral Communication, Arts and Humanities, Global Diversity
	<b>German</b>	Higher	GER B	4-7H	4 to 7	GER 2110 - German Reading and Conversation, GER 2120 - German Civilization	6	None
		Standard	GER B	4-7S	4 to 7	GER 1010 - Elementary German I, GER 1020 - Elementary German II	10	Oral Communication, Arts and Humanities, Global Diversity
	<b>Spanish</b>	Higher	SPA B	4-7H	4 to 7	SPA 2010 - Intermediate Spanish I, SPA 2020 - Intermediate Spanish II	6	None
		Standard	SPA B	4-7S	4 to 7	SPA 1010 - Elementary Spanish I, SPA 1020 - Elementary Spanish II	10	Oral Communication, Arts and Humanities, Global Diversity
<b>History</b>	<b>History of Africa</b>	Higher	HISA	4-7H	4 to 7	HIS 8000	6	Historical
		Standard	HISA	4-7S	4 to 7	HIS 8000	3	Historical
	<b>20th Century World History</b>	Standard	HISA	4-7S	4 to 7	HIS 1040 - World History since 1500	3	Historical, Global Diversity
	<b>20th Century World History- The Americas</b>	Higher	HISW A	4-7S	4 to 7	HIS 8000	6	Historical
	<b>History of Asia</b>	Higher	HISS	4-7H	4 to 7	HIS 8000	6	Historical
		Standard	HISS	4-7S	4 to 7	HIS 8000	3	Historical
<b>20th Century World History- European</b>	Higher	HISW E	4-7	4 to 7	HIS 1045 - Europe, Renaissance to the Present, HIS 8000	6	Historical, Global Diversity	
<b>English</b>	<b>English Literature</b>	Higher	ENGA-1B	4-7H	4 to 7	ENG 1100 - Introduction to Literature	3	Arts and Humanities
		Standard	ENGA-1B	4-7S	4 to 7	ENG 1100 - Introduction to Literature	3	Arts and Humanities
	<b>English A Language and Literature</b>	Higher	ENGA-1A and ENGA-1B	4-7H	4 to 7	ENG 1010 - Composing Arguments, ENG 1100 - Introduction to Literature	6	Written Communication, Arts and Humanities
		Standard	ENGA-1A	4-7S	4 to 7	ENG 1010 - Composing Arguments	3	Written Communication
	<b>English Language</b>	Higher	ENGA-1A	4-7H	4 to 7	ENG 1010 - Composing Arguments	3	Written Communication
		Standard	ENGA-1A	4-7S	4 to 7	ENG 1010 - Composing Arguments	3	Written Communication
<b>Mathematics</b>	<b>Mathematics</b>	Higher	MATH	4H	4	MTH 1400 - Precalculus Mathematics	4	Quantitative Literacy
		Higher	MATH	5-4H	5 to 7	MTH 1410 - Calculus I	4	Quantitative Literacy

		Standard	MATH	4-7S	4 to 7	MTH 1110 - College Algebra for Calculus	4	Quantitative Literacy
	<b>Further Mathematics</b>	Higher	MATHF	4-7H	4 to 7	MTH 2140 - Computational Matrix Algebra, MTH 2410 - Calculus II	6	Quantitative Literacy
	<b>Mathematics Applications and Interpretations</b>	Higher	MATHAI	4-7H	4 to 7	MTH 8000	6	Quantitative Literacy
		Standard	MATHAI	4-7S	4 to 7	MTH 8000	3	Quantitative Literacy
	<b>Mathematics Analysis and Approaches</b>	Higher	MATHAA	4-7H	4 to 7	MTH 8000	6	Quantitative Literacy
		Standard	MATHAA	4-7S	4 to 7	MTH 8000	3	Quantitative Literacy
	<b>Math Methods</b>	Standard	MATHM	4S	4	MTH 8000	3	Quantitative Literacy
		Standard	MATHM	5-7S	5 to 7	MTH 1110 - College Algebra for Calculus	4	Quantitative Literacy
	<b>Math Studies</b>	Standard	MATHS	4-7S	4 to 7	MTH 1080 - Mathematics for Liberal Arts	3	Quantitative Literacy
<b>Philosophy</b>	<b>Philosophy</b>	Higher	PHIL	4-7H	4 to 7	PHI 1010 - Introduction to Philosophy	3	Arts and Humanities
		Standard	PHIL	4-7S	4 to 7	PHI 1010 - Introduction to Philosophy	3	Arts and Humanities
	<b>World Religions</b>	Standard	WREL	4-7S	4 to 7	PHI 8000	3	Arts and Humanities, Global Diversity

## Departmental Credit by Examination

A department may grant a student credit for college courses for which the student requests and passes appropriate examinations. The non-refundable processing fee reflects actual administration costs and must be paid prior to taking the examination. Credit through departmental examination is based on knowledge equivalent to a regular course offered by the University. Omnibus-numbered courses are excluded. No record of failures on such examinations will be entered on the student's permanent record.

The following policies apply to all courses:

- Examinations cannot be taken to raise grades, to remove failures, or to remove notations that have no effect on the GPA.
- Credit by examination is not applicable toward the semester hour residency requirements. See Degree and Certificate Requirements.
- Credit by examination will not be granted for courses attended as an auditor.
- Examinations for credit will be taken at a time specified by the department. The department may limit the number of times students can attempt to challenge a course in one semester or in total. See department for details.
- The hours granted for credit by exam are not included as a part of the student's semester enrollment. The credit will appear on the transcript for the semester in which the examination was taken, but the hours do not count as part of the student's total enrollment for the purposes of financial aid or any other purpose predicated on total hours of enrollment for a given semester.
- Any exception to these policies must be approved through the Petition for Degree Exception. Information about filing an appeal through the Petition for Degree Exception is available from the Dean's Office of the College or School corresponding to the student's major.

The following policies only apply to courses with a gtPathways designation:

- MSU Denver will not grant credit for a departmental examination if, prior to the semester the exam is taken, a student has completed, was enrolled in, or is enrolled in, college courses equivalent to the subject material of the exam.
- A grade equivalent to "C-" or higher must be attained on the examination in order to receive credit, but credit earned for the course will be recorded without a grade on the student's permanent record and are not considered in computing university grade point averages.

The following policies only apply to courses that do not have a gtPathways designation:

- Permission for departmental credit by examination must be obtained in advance from the instructor giving the examination, the department chair, and the appropriate dean.

- Credit by examination cannot be obtained for a course in which a student has been enrolled at MSU Denver or at another regionally accredited college or university.
- MSU Denver will not grant credit for a departmental examination if, prior to the semester the exam is taken, a student has completed, is enrolled in, or was enrolled in, college courses equivalent to or more advanced than the subject material of the exam. This restriction includes courses designated at a higher level (i.e., 1000, 2000, 3000, 4000) within the same subject prefix (e.g., HIS, ENG).
- A grade equivalent to "B" or higher must be attained on the examination in order to receive credit, but credits earned for the course will be recorded without a grade on the student's permanent record and are not considered in computing university grade point averages.

Applications for departmental credit by examination are available at the Office of the Registrar (Student Success Building, Suite 160, #3).

## Portfolio Assessment

Students may apply for credit for college-level learning gained through experience by preparing and submitting a prior learning portfolio. Credit is awarded on the basis of a careful assessment of the prior learning portfolio by faculty in the department from which credit is sought. Portfolio assessment is available in many, but not all, academic departments. To earn credit, a student must be a continuing student enrolled in good standing in a degree or certificate program.

The portfolio is developed with the assistance of the Prior Learning Specialist. Portfolio assessment may be used to apply for credit for specific courses listed in the *Catalog*. Students may also apply for credit for omnibus courses through portfolio assessment with the permission of the appropriate academic department. Applicants for credit through portfolio assessment will be required to take EDS 2680 - Portfolio Development Workshop, which is offered as a correspondence course.

Policies that govern credit for prior learning options apply to credit awarded through the portfolio process. The non-refundable processing fee reflects actual administration costs and must be paid prior to evaluation of the portfolio by faculty for academic credit.

Advising sessions about portfolio assessment and other credit for prior learning options are held on a regular basis. For assistance and further information, contact the Prior Learning Specialist at 303-605-5574 or [msudenver.edu/registrar](http://msudenver.edu/registrar).

## Credit for Military Training, Military Occupational Specialties, and Other Training Programs Evaluated by the American Council on Education (ACE)

Military training, Military Occupational Specialties, and other educational programs that have been assessed for college credit by the American Council on Education (ACE) will be evaluated for transfer credit at MSU Denver for Veteran, Reserve, and Active Duty students.

In addition MSU Denver offers the following package of transfer credit and waivers:

- Either 6 semester hours of lower division elective credit (MILR 8000) for all students who have served four years active duty in the U.S. military OR 3 semester hours of lower division elective credit (MILR 8000) for all students who have served two years active duty in the U.S. military.
- 6 additional semester hours of upper division elective credit (MILR 9000) for students who have either served two terms of service of four years each or attained the rank of E5 or above in the U.S. military.
- 3 credits of COMM 1010 - Presentational Speaking for all students who served at least one enlistment and achieved the rank of E5 or above in the U.S. military.
- Waiver of the Global Diversity requirement for all students who accumulate at least 6 months of foreign service in the U.S. military.

Applicable credit and waivers will be granted upon presentation of evidence of either continued active service, transfer to the Reserve component, or discharge under conditions other than dishonorable. Students who have been discharged from active service should

submit their form DD214 to the Office of the Registrar for evaluation.

To request a military transcript, visit [jst.doded.mil](http://jst.doded.mil). Community College of the Air Force transcripts can be requested here.

Contact Prior Learning Specialist in the Office of the Registrar at 303-605-5574 for the following:

- Guidance in selecting a program of study and optimizing the use of prior learning assessment credit to accelerate the student's path to degree or certificate completion in the chosen program of study.
- Questions regarding credit awarded for military experience or other prior learning assessment options.

## **Credit for Other Training Programs**

Non-collegiate training such as corporate and educational programs, certifications, apprenticeships, and professional licenses may be considered for transfer credit with the approval of the academic department.

# Campus Policies

MSU Denver is located on the Auraria Campus, which is also home to the University of Colorado Denver and the Community College of Denver. The Auraria Higher Education Center (AHEC) oversees the shared services of the Auraria Campus. For information on campus policies, visit the AHEC policy website, [www.ahec.edu/policies](http://www.ahec.edu/policies).

## COVID-19 Impacts and Responses

A global pandemic struck during the 2019-2020 period. This massive outbreak necessitated extraordinary steps to be taken worldwide. This included stay-at-home orders, bans on public gathering, and a shutdown of many industries in an effort to blunt the impact of a respiratory illness that was incurable and spread by incidental contact.

Institutions of higher education were not immune to these changes. Universities, colleges and schools globally and locally ceased providing face-to-face teaching and learning and moved to strictly remote teaching through online applications. These changes in the middle of the Spring 2020 semester created a myriad of challenges and significant anxiety across the MSU Denver community. In response to these elements, special rules were designed to ensure continued university operation. Those rules have been captured here for future reference.

[Pass/Fail Grading Option](#)

[Special Rules for Certificates for Spring 2020](#)

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## Special Rules for Spring 2020 Grades

In light of the global pandemic that struck the United States during the Spring 2020 semester, Metropolitan State University of Denver and other institutions of higher education across the country created special rules related to grading and notations for the Spring 2020 semester only. Colleges and universities moving all courses online in an attempt to lessen the impacts of the Novel Coronavirus-19 (COVID-19) created anxiety for students. In an effort to lessen that impact, MSU Denver and others passed special rules that allowed students a one-time opportunity to convert letter grades to a Pass/Fail notation up to one week after grades posted at the end of the Spring 2020 semester. This rule only applied to coursework attempted during that semester.

During the Spring 2020 semester, professors at MSU Denver graded normally at the end of the term using the ABCDF grade mode. Then, depending on the student's program and the grade received, the ABCDF grade could have been translated into the Pass/Fail mode and receive a P (Pass) or F (No credit/Fail) notation on the student's transcript. For undergraduate students, the P notation covered every grade from an A to a C-, with the F reserved for D and F grades. For

graduate students, the P notation covered every grade from an A to a B-. The F notation covered all CDF grades for graduate students.

Rules limiting the use of P/F notations for the Spring 2020 semester were relaxed as well. P notations elected during the Spring 2020 semester do not count toward the maximum allowed in a degree/program/school/college. Also, P notations for this term awarded at other institutions of higher education will be accepted on transfer credit, but students and academic advisers should take care to ensure that the P will still satisfy all school/college/program requirements. This relaxation of rules allows for, but does not require, any relaxation in school/college/program requirements.

The special rules detailed in this note are applicable for Spring 2020 grades only. The notation on this special rule will appear in all iterations of the MSU Denver graduate and undergraduate catalogs through the 2023-2024 editions and may be referenced by future students who attended any institution of higher education during the Spring 2020 semester or any semester that commenced during the period from January 1, 2020, through May 15, 2020.

## Special Rules for Certificates for Spring 2020

During the Spring 2020 semester, Pass/Fail or Satisfactory/Unsatisfactory notations for a course will be acceptable in certificate programs. This is to recognize the unique nature of the Spring 2020 semester and the rush to all online course delivery by universities around the world. The anxieties created by the global pandemic created a number of special rules to ease student concerns. With the widespread use of "P" and "S" or "SP" notations, the university suspended the requirements for letter grades in each course in a certificate program for the Spring 2020 semester only.

If you have additional questions, please contact Academic Affairs.

## Change in Withdrawal Deadline

In light of the global pandemic that struck the United States during the Spring 2020 semester, Metropolitan State University of Denver has moved the withdrawal date for full-semester classes from Friday, April 3, 2020 to Friday, May 15, 2020.

Students can work with their faculty or advisors to determine if withdrawal from a course is the best option for them.

The definition for a withdrawal can be found here

Students may also view other relevant dates and deadlines within the Academic Calendar

## International Baccalaureate from Spring 2020

The pandemic necessitated the canceling of all International Baccalaureate (IB) testing in the United States for Spring 2020. Previously, the university accepted any IB test score of 4 or higher for university credit.

In the absence of testing, the International Baccalaureate Organization (IBO) prepared scores for students graduating in Spring 2020 based on evaluations of students performed earlier in the IB program predicted grading, third party evaluation and historical trends. The Colorado Department of Higher Education (CDHE) directed institutions of higher education to treat these assigned scores the same as exam test scores.

The CDHE exercised its ability to make this decision based on state law that requires the awarding of transferable credit (GT Pathways) for an IB exam score of 4 or above. Additionally, state law (§23-1-113.2(2), C.R.S.) requires an award of at least 24 college credit hours for successful completion of an IB diploma (with individual content exam scores of 4 and above).

The process of awarding a score, according to IBO:

- At a subject level, students will be awarded a grade on the normal IB 1-7 scale
- Theory of Knowledge (TOK), the Extended Essay and the Career-Related Programme
- Reflective Project will be awarded a grade on the normal IB A-E scale
- The DP core will be awarded on the normal IB 0-3 scale
- A total points score will be awarded for the Diploma, out of 45 as normal

If the student scored a 4 or higher in the IBO evaluation that will be reflected on the transcript and we will be awarding the student credit as usual. Transcripts from IBO with the score should have been available as of July 5, 2020.

[CDHE Guidance](#)

[IBO Guidance](#)

# Continuing Education and Noncredit Opportunities

Metropolitan State University offers several types of continuing education and non-credit opportunities. Please visit the Continuing Education and Non-Credit Offerings Catalog.

## Innovative and Lifelong Learning

- Innovative and Lifelong Learning (I&LL) programs offer top-quality and flexible MSU Denver credits and continuing education opportunities.
- [www.msudenver.edu/lifelonglearning](http://www.msudenver.edu/lifelonglearning)

# Degree and Certificate Requirements

Students are responsible for full knowledge of the provisions and regulations pertaining to their program contained in this catalog and elsewhere. Students have final responsibility for completing the requirements for a degree and are urged to seek advising. Students should never assume that they have approval to deviate from a stated requirement without a properly signed statement to that effect. Please refer to the Academic Policies and Procedures in this catalog.

For degree requirements, click on a link to be taken to the entry below.

- [Requirements for All Bachelor Degrees](#)
- [Requirements for Extended Majors](#)
- [Requirements for a Second Degree](#)
- [Requirements for Concurrent Degrees](#)
- [Requirements for Dual Majors](#)
- [Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirement](#)
- [Senior Experience Graduation Requirement](#)

## Requirements for All Bachelor Degrees

To earn a Bachelor of Science, Bachelor of Arts, Bachelor of Music Education, Bachelor of Music, or Bachelor of Fine Arts degree, a student must satisfy the following minimum requirements, plus any others stipulated for the degree for which a student is a candidate. Please refer to the Academic Policies and Procedures in this catalog.

- Complete a minimum of 120 semester hours with a cumulative GPA of 2.0 or higher for all coursework.
- Complete at least 40 semester hours in upper-division courses (3000- and 4000-level courses).
- Complete all General Studies requirements listed for the degree and major.
- Complete a three-credit hour Multicultural course requirement.
- Complete a three-credit hour Senior Experience course requirement. This course must be taken at MSU Denver.
- Complete one subject major consisting of not less than 30 semester hours. With certain exceptions, complete a minor consisting of at least 18 semester hours. Students may not major and minor in the same discipline and are encouraged to obtain verification from an advisor if uncertainty exists.
- Complete all special requirements of a department, school, or college.
- Achieve a cumulative GPA of 2.0 or higher in all MSU Denver courses that satisfy the requirements for the major and for all MSU Denver courses that satisfy requirements for a minor. Students should check with an advisor for special GPA program requirements.

- File an Application for Graduation with the Office of the Registrar according to published dates in the Academic Calendar.
- Academic residency (classroom credit) requirements:
  - Complete either (1) a minimum of 30 semester hours of academic credit applicable to the degree at MSU Denver, including the last 12 semester hours applicable to the degree, or (2) a minimum of 45 semester hours applicable to the degree at MSU Denver.
  - Complete at least 8 upper-division (3000- and 4000-level courses) semester hours of the major and 3 upper-division semester hours of the minor at MSU Denver (classroom credit).
  - Students should be aware that University of Colorado Denver pooled courses will not satisfy academic residency requirements at MSU Denver. Physics (PHY) courses are excluded from this restriction. To use an MSU Denver-UCD pooled course for the last 12 hours residency requirement, a student must (1) complete a minimum of 30 hours of credit at MSU Denver prior to graduation and (2) obtain permission from the major or minor department prior to taking a pooled course to meet a requirement in the major or minor program. UCD pooled credit will not count towards the 50 resident credit hours required for Honors.

## Requirements for Extended Majors

These majors require course work that is so extensive and in-depth that it creates an exception to the University requirement that all students must have a minor, as detailed in the "Requirements for All Bachelor Degrees." These majors meet the following requirements:

- Course work in the major consists of at least 60 credit hours. This includes all required courses for the major regardless of prefix.
- Course work in the major requires at least 30 upper division credit hours.
- Students who declare extended majors do not need to complete a minor unless there is a specific minor(s) required by the major. This language does not prohibit a student from pursuing a minor.

Students should check with an academic advisor when pursuing an extended major.

## Credit Limitations

- No more than 30 semester hours of omnibus-numbered courses may be applied toward graduation requirements, except for music.
- No more than 30 semester hours taken by correspondence may be applied toward a bachelor's degree.
- No more than 15 semester hours of internship credit may be applied toward a bachelor's degree.

- No more than 16 semester hours in human performance and leisure activity (HPL) courses will be counted towards a bachelor's degree for students who are not majoring in Human Performance and Sport.
- No more than 4 semester hours in varsity sports (ATH) courses will be counted towards a bachelor's degree for students who are not majoring in Human Performance and Sport.
- No more than 7 semester hours in music ensemble courses will be counted toward a bachelor's degree for students who are not majoring in music.
- No more than 12 semester hours of independent study credit may be applied toward a bachelor's degree.

## Student Bill of Rights

The General Assembly implemented the Student Bill of Rights (C.R.S. 23-1-125) to assure that students enrolled in public institutions of higher education have the following rights:

1. Students should be able to complete their associate of arts and associate of science degree programs in no more than sixty credit hours or their baccalaureate programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission;
2. a student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission;
3. students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;
4. students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education;
5. students, upon completion of core general education courses, regardless of the delivery method, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education;
6. students have a right to know if courses from one or more public higher education institutions satisfy the students' degree requirements;
7. a student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferrable.

## Requirements for a Second Bachelor's Degree

To earn a second Bachelor's degree, a student must satisfy the following minimum requirements, plus any others stipulated for the degree for which a student is a candidate.

Students should be aware that depending on the amount of curricular overlap between the first-degree program and the second-degree program, it might be difficult or impossible to fulfill the degree requirement. Students should consult with an advisor in the

department of the prospective program to determine the feasibility of a second-degree.

Please refer to the Academic Policies and Procedures in this catalog; requirements for a dual major can be found under Requirements for Dual Majors.

Students must comply with the following to be awarded an additional bachelor's degree:

- The first bachelor's degree must be recognized by Metropolitan State University of Denver.
- Declaration of a second Bachelor's degree major must be approved by the major department. Failure to do so may result in unawareness of issues with the completion of the degree requirements.
- Students must complete all degree requirements for the major.
- Students do not need to complete a minor unless specifically required by the major.
- General Studies will be considered complete unless deficiencies exist according to the major program requirements.
- Students must satisfy the Multicultural and Senior Experience course requirements for the second degree even if these requirements were met as part of the first degree.
- Students must have a cumulative GPA of 2.0 or higher for all coursework taken after the awarding of the previous degree. Students should check with an advisor for special GPA program requirements.
- An Application for Graduation must be filed with the Office of the Registrar according to published dates in the Academic Calendar.

## Academic Residency Requirements

- Students must spend at least two additional semesters in residence after the awarding of the previous degree.
- Students must complete a minimum of 30 semester hours of MSU Denver classroom credit, with a minimum of eight semester hours in upper division courses (3000- and 4000-level courses) in the major, after the awarding of the previous degree.
- Students may not repeat courses used to complete the first degree, unless the catalog allows the course to be repeated (for example, variable topics courses).

## Requirements for Concurrent Degrees

Students must comply with the following to be awarded two diplomas for two concurrent baccalaureate degrees of different types (e.g., B.S. and B.M.E.):

- Declaration of concurrent degrees requires department approval(s) and must be made prior to completion of 90 hours. Both degrees must utilize the same catalog year.

- Students who declare two degrees do not need to complete a minor unless the minor is specifically required for either of the majors.
- Students must satisfy all requirements for both majors.
- Students must complete a minimum requirement of eight unique MSU Denver upper-division semester hours for each major.
- Students must complete a minimum requirement of 30 MSU Denver semester hours.
- Students must complete a minimum upper division requirement of 40 hours total.
- Students must complete University requirements for General Studies, including General Studies courses specific to each major.
- Students must satisfy only one Multicultural Course requirement.
- Students must complete two unique Senior Experience courses.

## Requirements for Dual Majors

Students must comply with the following to be awarded one diploma for a single baccalaureate degree with dual majors (B.A., B.F.A., B.M., B.M.E., or B.S.). See advisors in each of the majors for specific degree requirements.

- Students who declare dual majors must select a primary major. A primary major is the major for which General Studies requirements will be satisfied (students who declare dual majors need not satisfy General Studies requirements for their second major).
- Students who declare dual majors do not need to complete a minor unless the minor is specifically required for either of the majors.
- Students who complete two concentrations under one major have not completed two majors.
- Coursework used to meet requirements for one major or minor may not be used to meet requirements for a second major or minor.

## Certificate Requirements

Students are responsible for full knowledge of the provisions and regulations pertaining to their program contained in this catalog and elsewhere. Students have final responsibility for completing the requirements for a certificate and are urged to seek advising. Students should never assume that they have approval to deviate from a stated requirement without a properly signed statement to that effect. Please refer to the Academic Policies and Procedures in this catalog.

To earn a certificate, a student must satisfy the following minimum requirements, plus any others stipulated for the certificate. For students in a standalone certificate program to receive financial aid, the certificate must be 24 credits or more and must be approved by the U.S. Department of Education prior to students enrolling.

- Complete a minimum of 15 semester hours (or 18 hours for post-baccalaureate certificates) as recommended by the

certificate program. Credit hours may not be waived from certificate programs.

- Complete all special requirements of a department, school, or college.
- Achieve at least a "C" or higher in each of the certificate courses. The courses may not be taken Pass/Fail.
- A maximum of one course substitution is permitted per certificate. Lower division courses may not replace upper division courses.
- File an Application for Certificate Awarding with the Office of the Registrar according to published dates in the Academic Calendar.
- Academic residency (classroom credit) requirements:
  - Complete a minimum of 60% of semester hours applicable to the certificate at MSU Denver.
  - Students should be aware that University of Colorado Denver pooled courses will not satisfy academic residency requirements at MSU Denver. Physics (PHY) courses are excluded from this restriction.

## General Studies Requirements

A baccalaureate degree includes a broad-based education that prepares students for the more focused study of the academic major. The general education component of the degree equips each student with crucial intellectual skills in analysis, research, and communication, in addition to foundational skills. General education coursework offers an introduction to a broad range of studies in the natural sciences, the human condition, aesthetic experience, and global and cultural diversity.

Click [here](#) to view the complete General Studies curriculum.

## Multicultural and Senior Experience Course Requirements

In addition to completing the General Studies requirements, a student must complete a 3-credit Multicultural course and a 3-credit Senior Experience course, or selection of courses, to be awarded a bachelor's degree from MSU Denver. The Multicultural course does not require three credits as a separate category and can be taken in the major, minor, or as an elective. The rules pertaining to those requirements and the courses that will satisfy those requirements are described below.

## Multicultural Graduation Requirements

The required content and materials for Multicultural coursework are designed to increase students' awareness and appreciation of cultural diversity in the United States. Multicultural coursework examines the interactions of values, beliefs, traditions, identities, and contributions of one or more of the following four groups of color in the United States: African American, Asian American, Hispanic American, and Native American, which may include the characteristics of gender, sexual orientation, age, or disability within these groups.

Click [here](#) to view the Multicultural requirements and course offerings.

## Senior Year Assessment Examinations and Other Activities

In their senior year, students may be required to participate in an assessment of their education. The faculty has determined educational goals or outcomes that it wants graduates to achieve. A copy of those goals and the methods by which their achievements are measured can be obtained from the department offices.

## Enrollment

- [Testing Services](#)
- [New Student Orientation](#)
- [Academic Advising](#)

## Testing Services

The Office of Testing Services provides testing services that help students determine placement in General Studies courses for their first year at MSU Denver. All first-time students and transfer students who need to take General Studies courses in Written Communication and Quantitative Literacy are required to complete the writing and mathematics Accuplacer placement examinations prior to enrollment, unless they meet at least one of the following exemptions for each examination:

- If the student has ACT or SAT scores within the past five years, some assessment tests may be waived if the following scores are met or exceeded: an ACT subscore at or above 18 in English (SAT verbal of 440) and 19 or 20 in Math (SAT math of 460 or 480).
- Students with Advanced Placement, International Baccalaureate, or College Level Examination Program test results may be exempt from certain placement tests. Students should contact the Transfer Services office at 303-556-3774 for more information.
- Transfer students who have completed the equivalent of the General Studies requirements in Written Communication and Quantitative Literacy are exempt from the placement examinations. Students should contact the Transfer Services office at 303-556-3774 for more information.

For additional information, see the Testing Services website, [msudenver.edu/testing](http://msudenver.edu/testing), or call 303-615-1700.

Degree-seeking students whose records indicate that they require remedial coursework have at their disposal Supplemental Academic Instruction (SAI) options offered through MSU Denver or basic skills courses offered through the Community College of Denver and other community colleges in the region. Students are responsible for completing remedial coursework within the first 30 semester hours at MSU Denver. The Office of Testing Services is located in the Tivoli Student Union, Room 347.

## New Student Orientation

Orientation is a required step for incoming degree-seeking students at MSU Denver. There are various options to complete orientation requirements including virtual and in-person sessions.

During orientation, incoming students have the opportunity to interact with current MSU Denver students and staff while they receive valuable information about academic advising, campus resources, and financial aid. Our virtual and in-person orientation programs include advising and registration support for the first semester of courses. Orientation Leaders also share some of their own tips for college survival, including how to utilize campus resources and how to get involved in campus activities.

For further information about orientation, visit the website, [msudenver.edu/orientation](http://msudenver.edu/orientation), call 303-615-0770, or email [orientation@msudenver.edu](mailto:orientation@msudenver.edu). The Orientation office is located in the Jordan Student Success Building, Suite 217.

## Academic Advising

At MSU Denver, students are provided multiple sources of academic advising support from faculty and professional advisors. Services available to students include assistance with course selection, schedule planning, and registration techniques; help with long-term degree planning; and ongoing developmental advising, including assistance with the major/minor selection process, adjustment to college, and more. For additional information on advising, visit [msudenver.edu/advising](http://msudenver.edu/advising).

# Financial Aid and Scholarships

The Metropolitan State University of Denver financial aid program provides assistance and advice to students who would be unable to pursue their education at the University without such help. Scholarships, grants, loans and part-time employment are available singly or in various combinations to meet the difference between what the student and the student's family could reasonably be expected to provide and the expected cost of attending MSU Denver.

For information on financial aid and scholarships, click on a link to be taken to the entry below.

- [Eligibility and Need](#)
- [Application Procedures](#)
- [Financial Aid Programs](#)
- [Grants](#)
- [Scholarships](#)
- [Loans](#)
- [Work-Study](#)
- [Financial Aid Package](#)
- [Award Notification](#)
- [Repayment Policy](#)
- [Financial Aid as a Form Payment](#)

## Eligibility and Need

To qualify for financial aid, a student must be a U.S. citizen or eligible noncitizen; be registered with Selective Service (if required); have financial need; be degree-, licensure-, or certificate-seeking; be making satisfactory academic progress; and not be in default on a federal education loan or owe a repayment on a federal grant.

## Application Procedures

Students must complete the Free Application for Federal Student Aid (FAFSA) each year to determine financial aid eligibility. For quicker processing, we strongly recommend that returning, transferring and entering students complete their FAFSA or Renewal FAFSA on the Web, [fafsa.ed.gov](http://fafsa.ed.gov). MSU Denver's Title IV School Code is: 001360.

Students should complete and submit the FAFSA or Renewal FAFSA to the federal processor as early as possible (after January 1st), preferably no later than mid-February, and submit all requested documents to the MSU Denver Office of Financial Aid by March 12th.

Detailed information concerning application procedures is provided on our website, [msudenver.edu/financialaid](http://msudenver.edu/financialaid).

## Financial Aid Programs

The amount of funds made available to students depends on the maximum award allowed by regulation of each program, the student's established financial need, duration of the student's enrollment, and funds allocated to the University by the state and federal governments.

## Grants

Grants are gift money from the federal or state government and do not have to be repaid.

**Federal Pell Grants** are federal funds awarded to undergraduate students who have not yet received a bachelor's degree and who are U.S. citizens or eligible non-citizens. The amount of the award is based on each student's financial eligibility and the number of hours for which the student is enrolled.

The amount of Federal Pell Grant awards for the academic year will range from \$575 to \$5,645 for those students who qualify. Full-time, half-time, or less than half-time students may qualify for a Federal Pell Grant.

**Federal Supplemental Educational Opportunity Grants (FSEOG)** are federal funds awarded to undergraduate students who have not yet received a bachelor's degree and are U.S. citizens or eligible non-citizens. This grant is awarded to students who demonstrate exceptional need. The amount of FSEOG awards range from \$100 to \$300 per Fall and Spring semesters.

**Colorado College Responsibility Grants (CCRG)** are state funds awarded to Colorado residents with demonstrated financial need. Eligible students have no prior bachelor's degree, are U.S. citizens or eligible non-citizens, and are enrolled full- or part-time (at least six credits for the Fall and Spring semesters) at MSU Denver. The amounts of the CCRG award ranges from \$100 to \$700 per Fall and Spring semesters.

## Scholarships

Metropolitan State University of Denver offers numerous scholarship opportunities for both incoming and continuing students. By submitting the Metropolitan State University of Denver Scholarship Application by March 1st "Priority Consideration Deadline" each year, you will automatically be considered for all MSU Denver scholarships for which you are eligible for the next academic year. The MSU Denver Scholarship Application is available for online submission at [msudenver.edu/financialaid/scholarships](http://msudenver.edu/financialaid/scholarships). A printable version of the application is also available for download at this location.

Students must be enrolled at least half-time, be degree-, certificate- or licensure-seeking, be making satisfactory academic progress, and not be in default on a federal education loan or owe a repayment on a federal or state grant to receive a scholarship.

**Athletic Scholarships:** MSU Denver has a limited number of athletic scholarships. For additional information, contact the MSU Denver Intercollegiate Athletics Office (303-615-0888).

**Private Scholarships:** Students should refer to the MSU Denver scholarship website, [msudenver.edu/financialaid/scholarships](http://msudenver.edu/financialaid/scholarships), for information regarding scholarships and to access free online scholarship searches.

Receipt of a scholarship may affect a student's financial aid award because students receiving federal and/or state aid are limited in the

maximum amount and type of aid that can be received. A student whose full need has been met by other types of financial aid prior to receipt of a scholarship will have that aid reduced by the amount of the scholarship. If the student's full eligibility has not been met, the scholarship will be allowed to satisfy the unmet need. Each student's situation is treated individually. All scholarships are based on the student's continued eligibility and available funding.

## Loans

Federal Perkins Loans are long-term federal loans that are awarded based on the student's need and MSU Denver's available funds. Federal Perkins Loans can range from \$100 to \$1,500 per semester. Repayment of the loan begins nine months after the student graduates or ceases to be enrolled in at least six credit hours each semester. The interest rate is 5 percent and interest begins to accrue at repayment. All first-time borrowers at MSU Denver are required to perform a Perkins Loan Entrance Interview over the Web before loan funds can be released to them.

**Subsidized Federal Stafford Loans:** are based on the student's need as determined by the MSU Denver Office of Financial Aid. Interest does not begin to accrue until six months after the student graduates or ceases to be enrolled in school at least half time (six credit hours per semester).

**Unsubsidized Federal Stafford Loans:** These loans have many of the same terms and conditions as the Federal Stafford Loan. The main difference is that the students are responsible for the interest that accrues while they are in school and during the six-month grace period after they graduate or cease to be enrolled in at least six credit hours.

**Federal PLUS Loans:** These loans are available to parents of dependent students. Applications are available from the MSU Denver Office of Financial Aid. Applications must first be submitted to the Office of Financial Aid for processing. At MSU Denver, parents of dependent students may borrow up to the cost of education minus the amount of financial aid received by the student from other sources each year.

Please refer to the MSU Denver Financial Aid website, [msudenver.edu/financialaid](http://msudenver.edu/financialaid), for more detailed information regarding loans.

## Work-Study

The State of Colorado, the federal government, and MSU Denver provide part-time employment programs for students. The maximum work-study award is \$2,500 per semester. The maximum hours a student may work is 30 hours per week while classes are in session and 40 hours per week between semesters. Students must be enrolled in at least six credit hours per semester to receive a work-study award. The majority of all work-study awards are need-based, however, there are a limited number of positions that are no-need awards.

## The Financial Aid Package

Once student eligibility is determined, an aid package is developed based on the availability of funds and the eligibility of the applicant. To facilitate financial aid packaging requirements, applicants must obtain all requested information and forms from designated sources and submit them to the MSU Denver Office of Financial Aid before the established deadline.

## Award Notification

After the Office of Financial Aid has determined the type and amount of aid for which a student qualifies (aid package), the student is emailed an Award Notification.

## Disbursement Procedures:

- Awards are based on full-time enrollment. If a student is enrolled for less than 12 credit hours each semester, the award may be reduced/prorated. The final award adjustment occurs on census date (about the 12th day of school each fall and spring semester and the 8th day of the summer semester).
- Grants, Scholarships and Student Loans: All financial aid awards (with the exception of out-of-state loan checks, consortium checks and some scholarship funds) are disbursed into the student's account. The Business Office deducts any outstanding balance owed, including current tuition and fees, and issues a check for the remaining funds. This check is either mailed to the student or the student can pick it up at the Cashier's Office. This check can be used to purchase books and pay other educationally related expenses.
- Parent Loans: Federal PLUS funds are electronically submitted or mailed from lenders to MSU Denver's Office of Financial Aid. Eligibility is verified and then the check is mailed to the parent borrower unless the parent authorizes the student to receive the refund.
- Work Study: Work-study earnings are paid biweekly and are treated as wages earned. Outstanding balances owed to MSU Denver are not deducted from these earnings; however, students are strongly advised to pay any outstanding balance as soon as a work-study check is received.

Please refer to the MSU Denver website, [msudenver.edu](http://msudenver.edu), for information regarding proration of aid disbursements.

## Repayment Policy

Students who receive financial aid and withdraw officially or unofficially from MSU Denver prior to completion of a term may be required to repay a portion of financial aid and scholarships. All required financial aid repayments must be made to MSU Denver before the end of the current academic year or before additional Title IV funds can be disbursed to the student, whichever occurs first. Repayment is made to the MSU Denver Business Office. Please go to MSU Denver's website, [msudenver.edu](http://msudenver.edu), for more specific information.

## Financial Aid as a Form of Payment

Please refer to MSU Denver's website, [msudenver.edu](http://msudenver.edu), for information regarding payment of tuition and fees with awarded aid.

# General Studies Requirements

A baccalaureate degree includes a broad-based education that prepares students for the more focused study of the academic major. The general education component of the degree equips each student with crucial intellectual skills in analysis, research, and communication, in addition to foundational skills. General education coursework offers an introduction to a broad range of studies in the natural sciences, the human condition, aesthetic experience, and global and cultural diversity.

For additional information regarding General Studies, click on a link to be taken to the entry below.

- [General Studies Courses by Category](#)
- [General Studies Mission](#)
- [Structure of General Studies](#)
- [Distribution and Credit Requirements](#)
- [Timing of Completion](#)
- [Rules for the General Studies Program](#)
- [Additional Rules for Specific Majors](#)
- [Transfer Credit Rules](#)
- [State-Guaranteed Education Courses](#)

## General Studies Mission

The General Studies program provides the foundation for the Bachelor's degree. Students develop thinking, reasoning, and communication skills while discovering new ideas and expanding their views. The coursework is designed to create the opportunity for learning across different disciplines and builds experiences for students as they grow into lifelong learners.

## Structure of General Studies

The General Studies Program is structured around the following three goals:

- Develop intellectual and practical skills
- Explore essential knowledge, perspectives, and methods in Arts and Humanities, History, Social and Behavioral Sciences, and Natural and Physical Sciences
- Understand the global interconnectedness of diverse individuals, communities and societies

Each goal is supported by a set of student learning outcomes (SLOs) that are addressed by the courses in eight different categories.

## Distribution and Credit Requirements

To complete the General Studies Program, students must take approved courses that fulfill the following distribution and credit requirements:

CATEGORY	SEMESTER HOURS
Written Communication	6
Oral Communication	3

Quantitative Literacy	3
Arts and Humanities	6
Historical	3
Natural and Physical Sciences	6
Social and Behavioral Sciences	6
Global Diversity	0 or 3*
TOTAL	33 minimum

*\*Students may fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## General Policy Related to Timing of Completion

The following course categories must be completed within the first 30, college-level credits (including credits completed at MSU Denver and those transferred from other institutions):

- Written Communication (first 3 semester hours of coursework)
- Oral Communication (3 semester hours of coursework)
- Quantitative Literacy (3 semester hours of coursework)

The following course category must be completed within the first 45 or 90, college-level credits (including credits completed at MSU Denver and those transferred from other institutions):

- Written Communication (remaining 3 semester hours of coursework)
- A 45-credit rule applies to students completing a CO-1 and CO-2 requirement.
- A 90-credit rule applies to students completing a CO-2 and CO-3 requirement.

The following course categories must be completed within the first 90, college-level credits (including credits completed at MSU Denver and those transferred from other institutions):

- Arts and Humanities (6 semester hours of coursework)
- Historical (3 semester hours of coursework)
- Natural and Physical Sciences (6 semester hours of coursework)
- Social and Behavioral Sciences (6 semester hours of coursework)
- Global Diversity (one course designated "global" from any category will fulfill both the global diversity requirement and the appropriate credits in that category)

Students who have not completed the quantitative literacy, oral communication, and the first three credits of the written communication requirements within the first 30 semester hours will be required, through an advising hold, to complete an advising process and register for the required course(s). Students who have completed 45 semester hours and have not completed the written communication, oral communication, and quantitative literacy requirements must enroll in and successfully complete courses that fulfill these requirements. This advising and registration process will continue until the requirements have been fulfilled. Students pursuing

CO-2 and CO-3 requirements will have 90 credit hours, instead of 45 credit hours, to fulfill the second 3-hours portion of their Written Communication requirements.

**Transfer Students:** New transfer students must complete the written communication, oral communication, and quantitative literacy requirements within their first two semesters at MSU Denver or by 45 total semester hours, whichever is later. Students pursuing CO-2 and CO-3 requirements will have 90 credit hours, instead of 45, to fulfill the second 3-hour portion of their Written Communication requirements. All other provisions of the policy are the same.

## Rules for the General Studies Program

To satisfy a particular general studies requirement, a course must appear on the list of approved general studies courses at the time of enrollment in the course.

- General studies courses need not be counted toward general studies requirements. They may be taken as electives or to satisfy requirements in the major or degree program.
- One hour deviations in the general studies course categories may be allowed for transfer students only, provided the student completes at least 33 semester hours of general studies coursework.
- Courses taken for a pass/fail grade cannot be counted toward general studies.
- Students may use the multicultural course to satisfy two requirements: (1) Multicultural and (2) General Studies, or major or minor requirements.
- Students seeking a second baccalaureate degree will be considered to have fulfilled MSU Denver's general studies requirements. However, departments may require that these students take additional coursework outside of the major.

## Additional Rules for General Studies for Specific Majors

- Nursing Majors:** Credit for biology courses of anatomy and physiology, in which the student earned a grade of "C" or better, may be substituted for the natural and physical sciences requirement for all students with a nursing major.
- Human Performance and Sport Majors:** Students will use BIO 2310-4 to satisfy a portion of the natural and physical sciences requirement.
- Teacher Education Licensure Programs:** Students in programs currently requiring MUS 3060/ARTH 3060 may receive general studies credit in the arts and humanities category for the 2016-2017 academic year.

## General Studies Designation for Transfer Courses

The following rules apply to transfer students from two-year colleges in Colorado.

Metropolitan State University of Denver will:

- Accept courses that are part of the state's guaranteed transfer curriculum (*gtPathways*) as fulfilling MSU Denver's general studies requirements. Additional specific lower-division courses may be required for certain degree programs. Please check with a departmental advisor and/or the Office of the Registrar for more information.
- MSU Denver will accept all credit hours of acceptable course work for automatic transfer from an associate of arts or associate of science degree with designation.
- Review and accept on a course-by-course basis for general studies credit courses that do not appear on the *gtPathways* list. General studies equivalency will be determined by prefix, course title, category, and catalog description.
- If no transfer course satisfies the global diversity requirement, the student must take an approved global diversity course.

Transfer courses to meet General Studies requirements will be accepted from all other institutions under the following guidelines:

- Transferable courses equivalent to an existing General Studies course will satisfy the corresponding General Studies requirement. Equivalency will be determined by the department offering the course. Once a course has been approved by a department, it will be given the status of an approved transferable General Studies course.
- Transferable courses that are not equivalent to an existing MSU Denver course will be evaluated for General Studies designation by the department where the majority of the course content resides.
- If a transferable course is interdisciplinary, MSU Denver transfer evaluators will consult with the department(s) where the majority of the course content resides. The course will be evaluated for General Studies designation by those departments.
- If a transferable course does not clearly correspond to an MSU Denver department, the course will be evaluated for General Studies designation by the Faculty Senate General Studies Review Committee.
- For all situations not addressed above, the course will be evaluated for General Studies designation by the Faculty Senate General Studies Review Committee.
- An appeal can be made to the Associate Vice President of Curriculum and Policy Development.

## Written Communication Requirement

**Description:** Written communication is the development and expression of ideas in writing across many genres and styles. It includes understanding how writers may shape texts for their specific rhetorical situation. It includes multimodal composing and the creation of texts that combine words, images, and/or data. Written communication abilities develop through interactive and iterative experiences across the curriculum.

Students must complete a minimum of 6 semester hours to satisfy the written communication requirement.

## Student Learning Outcomes

- Exhibit a thorough understanding of audience, purpose, genre, and context that is responsive to the situation.
- Create and develop ideas within the context of the situation and the assigned task(s).
- Apply formal and informal conventions of writing, including organization, content, presentation, formatting, and stylistic choices, in particular forms and/or fields.
- Critically read, evaluate, apply, and synthesize evidence and/or sources in support of a claim.
- Use an appropriate documentation system.
- Demonstrate proficiency with conventions, including spellings, grammar, mechanics, and word choice appropriate to the writing task.

## Rules

1. Students must complete a placement to assess their writing skills. Placement may be in ENG 1008 and ENG 1009, ENG 1010 with ENG 1001, or ENG 1010.
2. Students shall satisfy the Written Communication course requirement and credit will be granted if they:
  - a. pass 6 hours of approved Written Communication courses with a combination of a CO1 and CO2 or a CO2 and a CO3,
  - b. pass a CLEP or AP test approved by a Department offering an approved Written Communication course and the remaining Written Communication course, or
  - c. transfer equivalent courses.
3. To receive credit for Written Communication, the student must receive a grade of "C-" or better in each course.
4. To receive transfer credit for ENG 1020, the course must have been taken within the past 10 years.

## Courses

### CO1:

- ENG 1009 - Stretch Composing Arguments B **Credits: 3**
- ENG 1010 - Composing Arguments **Credits: 3**

### CO2:

- ENG 1020 - Research and Argument Writing **Credits: 3**
- ENG 1021 - Honors Research and Argument Writing **Credits: 3**

### CO3:

- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3526 - Writing in the Sciences **Credits: 3**
- ENG 3527 - Professional Writing **Credits: 3**
- HIS 3000 - Historical Writing and Thinking **Credits: 3**

## Oral Communication Requirement

**Description:** Students learn to perform effective and ethical oral communication that is appropriate to diverse audiences, settings, media, and goals.

Students must complete a minimum of 3 semester hours to satisfy the oral communication requirement.

## Student Learning Outcomes

- Develop a clear, purposeful message with coherent and effective content.
- Incorporate various and credible supporting material (e.g. examples, statistics, analogies, illustrations, and quotations).
- Practice effective listening strategies that enhance understanding, evaluation and engagement.
- Adapt to varied audiences, their beliefs, values, and attitudes, as well as to features of contexts, situations, and interactions.
- Perform skillful non-verbal communication (e.g. vocal variety, pace and physical behavior) appropriate to audience and context.
- Perform skillful verbal communication (e.g. clear, vivid, and/or compelling language) appropriate to audience and context.

## Courses

### Select one:

- ASL 1020 - American Sign Language II **Credits: 3**
- CHI 1010 - Elementary Chinese I **Credits: 5**
- COMM 1010 - Presentational Speaking **Credits: 3**
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- FRE 1010 - Elementary French I **Credits: 5**
- GER 1010 - Elementary German I **Credits: 5**
- HON 1013 - Presentational Speaking **Credits: 3**
- HON 1710 - Fundamentals of Oral Communication **Credits: 3**
- ITA 1010 - Elementary Italian I **Credits: 5**
- JPS 1010 - Elementary Japanese I **Credits: 5**
- PHI 1110 - Language, Logic & Persuasion **Credits: 3**
- SLHS 1620 - American Sign Language II **Credits: 3**
- SPA 1010 - Elementary Spanish I **Credits: 5**
- THE 2226 - Acting for Non-Majors: Communication in Performance **Credits: 3**

Approved equivalent transfer courses and credits awarded through AP or IB will receive the Oral Communication designation. Credits earned through CLEP scores for these courses will not be used to satisfy the oral communication requirement.

## Quantitative Literacy Requirement

**Description:** Competency in quantitative literacy represents a student's ability to use quantifiable information and mathematical analysis to make connections and draw conclusions. The main focus of each Quantitative Literacy course is the use of mathematical techniques and analysis, with problems from a broad spectrum of real-life and abstract settings requiring translation to and from mathematical forms.

Students must complete a minimum of 3 semester hours to satisfy the quantitative literacy requirement.

### Student Learning Outcomes

- Apply mathematical techniques to the analysis of quantitative problems.
- Communicate the mathematical process and results in text, graphics, and symbols.

### Rules

1. Students must complete a placement test to determine their quantitative abilities. Those students whose scores fall below the minimum benchmark must complete developmental coursework in mathematics before enrolling in any Quantitative Literacy course.
2. Students satisfy the Quantitative Literacy course requirement and credit will be granted if they:
  - a. pass a course that has been approved for General Studies Quantitative Literacy credit,
  - b. pass a CLEP, AP, or IB test approved by a department offering an approved Quantitative Literacy course,
  - c. successfully complete a math course for which a Quantitative Literacy course is a prerequisite, or
  - d. transfer an equivalent course.

### Courses

#### Select one:

- MTH 1080 - Mathematics for Liberal Arts **Credits: 3**
- MTH 1081 - Mathematics for Liberal Arts with Laboratory **Credits: 3**
- MTH 1109 - College Algebra Stretch, Part II **Credits: 4**
- MTH 1110 - College Algebra for Calculus **Credits: 4**
- MTH 1111 - College Algebra for Calculus with Laboratory **Credits: 4**
- MTH 1112 - College Algebra Through Modeling **Credits: 4**
- MTH 1115 - College Algebra through Modeling with Laboratory **Credits: 4**
- MTH 1210 - Introduction to Statistics **Credits: 4**
- MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits: 4**
- MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory **Credits: 4**
- MTH 1610 - Integrated Mathematics I **Credits: 3**

## Arts and Humanities Requirement

**Description:** In Arts and Humanities courses students interpret, analyze, and create texts and other artistic works to deepen their understanding of the various contexts that shape the human experience and explore fundamental questions of identity, value, diversity, and meaning.

Students must complete a minimum of 6 semester hours to satisfy the arts and humanities requirement.

### Student Learning Outcomes

- Describe how the context (historical, racial, ethnic, material, technological, religious, intellectual, cultural, gender, etc.) influences the creation, content, or interpretation of a text, performance, work of art, etc.
- Critically engage with a text, performance, work of art, etc. by applying social/political, epistemic, aesthetic, pragmatic, moral/ethical, or other discipline-appropriate standards.
- Implement course content or skills through the creation of an original project (essay, argument, narrative, reflection, oral presentation, performance, work of art, etc.).

### Courses

#### Select two:

- AAS 3930 - African Authors **Credits: 3** (Global Diversity)
- ANT 2400 - Women's Folklore and Folklife **Credits: 3**
- ANT 3386 - Religious Narratives and Culture **Credits: 3**
- ANT 3530 - Writing Systems and Scribal Traditions **Credits: 3** (Global Diversity)
- ARTE 2060 - The Arts and Creative Thinking **Credits: 3**
- ARTH 1500 - Art and Visual Literacy **Credits: 3**
- ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3** (Global Diversity)
- ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3** (Global Diversity)
- CHI 1020 - Elementary Chinese II **Credits: 5** (Global Diversity)
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3** (Multicultural)
- COMM 2010 - Gender and Communication **Credits: 3**
- COMM 2400 - Introduction to Rhetoric and Popular Culture **Credits: 3**
- ENG 1100 - Introduction to Literature **Credits: 3**
- ENG 2150 - Legends of Troy **Credits: 3**
- ENG 2170 - Medieval Mythologies **Credits: 3** (Global Diversity)
- ENG 2270 - Monsters and Monstrosity **Credits: 3**
- ENG 2340 - Shakespeare and Popular Culture **Credits: 3**
- ENG 2410 - Survey of Chicana/o Literature **Credits: 3** (Multicultural)
- ENG 2460 - Introduction to Children's Literature **Credits: 3**
- ENG 2500 - Introduction to Creative Writing **Credits: 3**
- ENG 2505 - Rhetoric of War **Credits: 3**
- ENG 2512 - The Rhetoric of Social Media **Credits: 3**

- ENG 2810 - Vampire Films **Credits: 3** (Global Diversity)
- ENG 2820 - Aviation in Film and Literature **Credits: 3**
- ENG 2850 - International Film **Credits: 3** (Global Diversity)
- ENG 3465 - Anti-Racist Children's Literature **Credits: 3** (Multicultural)
- FRE 1020 - Elementary French II **Credits: 5** (Global Diversity)
- GER 1020 - Elementary German II **Credits: 5** (Global Diversity)
- GWS 2770 - Gender and Communication **Credits: 3**
- GWS 2400 - Women's Folklore and Folklife **Credits: 3**
- GWS 3260 - Gender, Social Justice and the Personal Narrative **Credits: 3**
- GWS 3270 - Beauty Cultures **Credits: 3** (Global Diversity)
- HON 1000 - Introduction to Music **Credits: 3**
- HON 1011 - Introduction to Philosophy **Credits: 3**
- HON 1500 - Art and Visual Literacy **Credits: 3**
- HON 1600 - World Art I: Art Prior to 1400 **Credits: 3** (Global Diversity)
- HON 1700 - World Art II: Art 1400-1900 **Credits: 3** (Global Diversity)
- HON 2211 - Introduction to Theatre **Credits: 3**
- HON 2750 - History of the Self **Credits: 3**
- ITA 1020 - Elementary Italian II **Credits: 5** (Global Diversity)
- JMP 1010 - Critical Thinking through 21st Century Media **Credits: 3**
- JPS 1020 - Elementary Japanese II **Credits: 5** (Global Diversity)
- LING 2011 - Origins of English Words **Credits: 3**
- LING 3090 - Writing Systems and Scribal Traditions **Credits: 3** (Global Diversity)
- MUS 1000 - Introduction to Music **Credits: 3**
- MUS 1050 - History of Rock and Roll **Credits: 3**
- MUS 3000 - Musics of America **Credits: 3** (Multicultural)
- MUS 3015 - Global Pop **Credits: 3** (Global Diversity)
- MUS 3020 - History of Jazz **Credits: 3** (Multicultural)
- MUS 3050 - Musics of the World **Credits: 3** (Global Diversity)
- MUS 3099 - The Beatles: Music and Culture **Credits: 3**
- MUS 4000 - Musics of Latin America **Credits: 3** (Global Diversity)
- MUS 4010 - From Blues to Hip Hop: African American Musical Heritage **Credits: 3** (Multicultural)
- PHI 1010 - Introduction to Philosophy **Credits: 3**
- PHI 1030 - Introduction to Ethics **Credits: 3**
- PHI 1040 - Introduction to Eastern Religions **Credits: 3** (Global Diversity)
- PHI 1050 - Introduction to Western Religions **Credits: 3**
- PHI 1060 - Ethics in Medicine and Science **Credits: 3**
- PHI 2040 - Philosophy of Religion **Credits: 3**
- PHI 3000 - History of Ancient Philosophy **Credits: 3**

- PHI 3020 - History of Modern Philosophy **Credits: 3**
- PHI 3360 - Business Ethics **Credits: 3**
- PHI 3370 - Computers, Ethics, and Society **Credits: 3**
- SLHS 3000 - Foundations of Disability Studies through Media **Credits: 3**
- SPA 1020 - Elementary Spanish II **Credits: 5** (Global Diversity)
- THE 2210 - Introduction to Theatre **Credits: 3**
- THE 2295 - Comedy: In-Print and On-Stage **Credits: 3**
- THE 3213 - Staging Cultures: Theatre, Drama, and Multiculturalism **Credits: 3** (Multicultural)

## Historical Requirement

**Description:** Historical thinking contextualizes the present by using a wide range of sources and methods to understand how people experienced the past.

Students must complete a minimum of 3 semester hours to satisfy the historical requirement.

## Student Learning Outcomes

- Demonstrate the ability to locate sources when information is needed, and to evaluate the authenticity, validity, and reliability of resources applied to a specific purpose.
- Communicate in writing with an awareness of audience, by using language conventions appropriate to the occasion and task.
- Demonstrate historical knowledge of the United States, the world, or one of the major regions of the world.
- Demonstrate, using historical sources, how context and contingency influence change over time.
- Develop an effective historical interpretation and marshal primary and/or secondary source evidence to support it.

## Courses

### Select one:

- AAS 1130 - Survey of African History **Credits: 3** (Global Diversity)
- ANT 1650 - Ancient Civilizations **Credits: 3** (Global Diversity)
- GWS 1600 - Women in World History **Credits: 3** (Global Diversity)
- HIS 1005 - Ancient Civilizations **Credits: 3** (Global Diversity)
- HIS 1030 - World History to 1500 **Credits: 3** (Global Diversity)
- HIS 1035 - The Medieval World **Credits: 3** (Global Diversity)
- HIS 1040 - World History since 1500 **Credits: 3** (Global Diversity)
- HIS 1045 - Europe, Renaissance to the Present **Credits: 3** (Global Diversity)
- HIS 1150 - Multicultural America **Credits: 3** (Multicultural)

- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- HIS 1250 - China and East Asia **Credits: 3** (Global Diversity)
- HIS 1270 - India and South Asia **Credits: 3** (Global Diversity)
- HIS 1300 - Introduction to Latin American History **Credits: 3** (Global Diversity)
- HIS 1600 - Women in World History **Credits: 3** (Global Diversity)
- HIS 1700 - Nature and Society **Credits: 3** (Global Diversity)
- HIS 1940 - Survey of African History **Credits: 3** (Global Diversity)
- HON 1040 - World History since 1500 **Credits: 3** (Global Diversity)
- HON 1211 - American History to 1865 **Credits: 3**
- HON 1221 - American History since 1865 **Credits: 3**

## Natural and Physical Sciences Requirement

**Description:** The Natural and Physical Sciences involve discovering knowledge in natural or physical sciences, applying scientific thinking and reasoning, and critically thinking about the use of scientific information.

Students must complete a minimum of 6 semester hours to satisfy the natural and physical science requirement.

*Note: Some biology courses require both a lecture and a laboratory to satisfy general studies requirements. Please see course notes for corequisite requirements.*

### Student Learning Outcomes

- Explain the foundational knowledge of a particular field of natural or physical science
- Apply principles and techniques of scientific thinking.
- Evaluate the credibility of scientific information and interpret the impact of its use or misuse in society.

### Courses

- ANT 1010 - Introduction to Biological Anthropology **Credits: 3** (Global Diversity)
- AST 1040 - Introduction to Astronomy - Solar System **Credits: 4**
- AST 1050 - Introduction to Astronomy - Stars and Galaxies **Credits: 4**
- AST 3040 - Modern Cosmology **Credits: 3**
- BIO 1000 - Human Biology for Non-Majors **Credits: 3**
- BIO 1030 - General Biology for Non-Majors **Credits: 4**
- BIO 1080 - General Biology I **Credits: 3**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**

- BIO 1091 - General Biology Laboratory II **Credits: 1**
- CET 1040 - Introduction to Engineering **Credits: 3**
- CHE 1010 - Chemistry and Society **Credits: 3**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- EET 1040 - Introduction to Engineering **Credits: 3**
- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3** (Global Diversity)
- GEL 1010 - Physical Geology **Credits: 4**
- GEL 1020 - Geology of Colorado **Credits: 3**
- GEL 1030 - Historical Geology **Credits: 4**
- GEL 1150 - Physical Oceanography **Credits: 3**
- GIS 1220 - Digital Earth: Geospatial Technologies **Credits: 4**
- HON 1080 - General Biology I **Credits: 3**
- HON 1090 - General Biology Laboratory I **Credits: 1**
- HON 2040 - Introduction to Nutrition **Credits: 3**
- HON 2800 - Scientific Revolutions **Credits: 3**
- MET 1040 - Introduction to Engineering **Credits: 3**
- MTR 1400 - Weather and Climate **Credits: 3**
- MTR 1600 - Global Climate Change **Credits: 3** (Global Diversity)
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- PHY 1000 - Introduction to Physics **Credits: 4**
- PHY 1020 - Physics of Advanced Materials **Credits: 1**
- PHY 1250 - Physics of Aviation **Credits: 6**
- PHY 2010 - College Physics I **Credits: 4**
- PHY 2020 - College Physics II **Credits: 4**
- PHY 2030 - College Physics I Laboratory **Credits: 1**
- PHY 2040 - College Physics II Laboratory **Credits: 1**
- PHY 2308 - Stretch General Physics I A **Credits: 3** (A total of 4 General Studies credits awarded after passing both PHY 2308 and PHY 2309)
- PHY 2309 - Stretch General Physics I B **Credits: 3** (A total of 4 General Studies credits awarded after passing both PHY 2308 and PHY 2309)
- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**
- PHY 2620 - Sound and Music **Credits: 3**
- SCI 2600 - Integrated Biology and Earth Science **Credits: 3**
- SCI 2610 - Integrated Physical and Chemical Sciences **Credits: 3**

## Social and Behavioral Sciences Requirement

**Description:** Courses in Social and Behavioral Science study the behavior and actions of individuals, groups, and/or institutions using scientific methods and approaches. Social and Behavioral Science also develops a student's ability to examine and influence those behaviors and actions between and among larger social, economic, political, and/or geographic contexts.

Students must complete a minimum of 6 semester hours to satisfy the social and behavioral sciences requirement.

### Student Learning Outcomes

- Describe fundamental concepts in the social and behavioral sciences.
- Examine how individuals, groups, communities, and social institutions relate or interact with each other and/or the natural world using theories and methods in the social and behavioral sciences.
- Engage with social and behavioral science tools, approaches, and skills to explore complex human, social, political, cultural, and/or global interactions and issues.

### Courses

#### Select two:

- AAS 1010 - Introduction to Africana Studies **Credits:** 3 (Multicultural)
- AAS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Global Diversity)
- AAS 2100 - Women of Color **Credits:** 3 (Multicultural)
- ANT 1310 - Introduction to Cultural Anthropology **Credits:** 3 (Global Diversity)
- ANT 2330 - Cross-Cultural Communication **Credits:** 3 (Multicultural)
- ANT 3375 - Food Cultures **Credits:** 3 (Global Diversity)
- ANT 3379 - Middle Eastern Cultures **Credits:** 3 (Global Diversity)
- ANT 3395 - Transnational Genders and Sexualities **Credits:** 3 (Global Diversity)
- ANT 3640 - Biblical Archaeology **Credits:** 3 (Global Diversity)
- ANT 3650 - 100,000 Years of War **Credits:** 3 (Global Diversity)
- BUS 3010 - Global Business Experience **Credits:** 3 (Global Diversity)
- CET 3120 - Engineering Economy **Credits:** 3
- CHS 1000 - Introduction to Chicana/o Studies **Credits:** 3 (Multicultural)
- CHS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Global Diversity)
- CHS 2100 - Women of Color **Credits:** 3 (Multicultural)
- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits:** 3 (Multicultural)

- CJC 1010 - Introduction to the Criminal Justice System **Credits:** 3
- COMM 2200 - Introduction to Interpersonal Communication **Credits:** 3
- COMM 2300 - Introduction to Organizational Communication **Credits:** 3
- COMM 3000 - Diversity and Communication in the U.S. **Credits:** 3 (Multicultural)
- COMM 3060 - Speech and Thought in a Digital Age **Credits:** 3
- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- ECO 3800 - Development Economics **Credits:** 3 (Global Diversity)
- EDS 1001 - Educational (In)Equality in the 21st Century **Credits:** 3 (Multicultural)
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 (Multicultural)
- ENG 2513 - Disability Rhetorics **Credits:** 3
- ENG 3670 - Social Change and Writing Centers **Credits:** 3
- GEG 1000 - World Regional Geography **Credits:** 3 (Global Diversity)
- GEG 1300 - Introduction to Human Geography **Credits:** 3 (Global Diversity)
- GEG 1700 - Principles of Sustainability **Credits:** 3
- GEG 2020 - Geography of Colorado **Credits:** 3
- GEG 2700 - Geographies of Environmental Justice **Credits:** 3 (Multicultural)
- GEG 3230 - Latin American Geographies **Credits:** 3 (Global Diversity)
- GEG 3300 - Indigenous Geographies of North America **Credits:** 3 (Multicultural)
- GWS 1001 - Introduction to Gender, Women, and Sexualities Studies **Credits:** 3
- GWS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Global Diversity)
- GWS 1200 - Multicultural Study of Sexualities and Genders **Credits:** 3 (Multicultural)
- GWS 1550 - Introduction to Transgender Studies **Credits:** 3
- GWS 2100 - Women of Color **Credits:** 3 (Multicultural)
- GWS 3395 - Transnational Genders and Sexualities **Credits:** 3 (Global Diversity)
- GWS 3930 - Theories of Love and Sex **Credits:** 3 (Global Diversity)
- HCM 2010 - Global Health Systems **Credits:** 3 (Global Diversity)
- HIS 3705 - 100,000 Years of War **Credits:** 3 (Global Diversity)
- HIS 3706 - Biblical Archaeology **Credits:** 3 (Global Diversity)

- HIS 3785 - Science and Technology in World History **Credits: 3** (Global Diversity)
- HON 1003 - Introduction to Chicana/o Studies **Credits: 3** (Multicultural)
- HON 1023 - Comparative Politics **Credits: 3**
- HON 1311 - Introduction to Cultural Anthropology **Credits: 3** (Global Diversity)
- HON 1501 - Dynamics of Health **Credits: 3**
- HON 2010 - Principles of Macroeconomics **Credits: 3**
- HON 2020 - Principles of Microeconomics **Credits: 3**
- HON 2230 - Introduction to International Relations **Credits: 3** (Global Diversity)
- HON 2770 - Dynamics of Change **Credits: 3** (Global Diversity)
- HON 2850 - Technology and Society **Credits: 3**
- HON 3101 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (Multicultural)
- HON 3120 - Engineering Economy **Credits: 3**
- HON 3760 - Diversity and Communication in the U.S. **Credits: 3** (Multicultural)
- HPS 2021 - Physical Literacy and Society **Credits: 3**
- HSP 1010 - Introduction to Human Services **Credits: 3**
- HSP 1020 - Introduction to Trauma Informed Care **Credits: 3**
- IND 2810 - Technology and Design: Global Perspectives **Credits: 3** (Global Diversity)
- ITP 1500 - Dynamics of Health **Credits: 3**
- ITP 3000 - Men's Health **Credits: 3**
- ITP 3850 - Lifestyle Medicine **Credits: 3**
- JMP 1000 - Introduction to Journalism and Mass Media **Credits: 3**
- MKT 2010 - Marketing Around the Globe **Credits: 3** (Global Diversity)
- NAS 1030 - Introduction to Social Justice and Decoloniality **Credits: 3** (Global Diversity)
- NAS 3300 - Indigenous Geographies of North America **Credits: 3** (Multicultural)
- NUT 3101 - Body Image: Concepts and Approaches **Credits: 3**
- NUT 3350 - Global Nutrition and Health **Credits: 3** (Global Diversity)
- NUT 3375 - Food Cultures **Credits: 3** (Global Diversity)
- PSC 1010 - American National Government **Credits: 3**
- PSC 1020 - Comparative Politics **Credits: 3**
- PSC 1030 - Multicultural Politics for Non-Majors **Credits: 3** (Multicultural)
- PSC 2230 - Introduction to International Relations **Credits: 3** (Global Diversity)
- PSC 2240 - Global Challenges in the Twenty-First Century **Credits: 3** (Global Diversity)
- PSC 3300 - Indigenous Geographies of North America **Credits: 3** (Multicultural)
- PSC 3379 - Middle Eastern Cultures **Credits: 3** (Global Diversity)
- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- RTM 2730 - Sport in Society **Credits: 3**
- SLHS 1500 - Introduction to Communication Sciences **Credits: 3**
- SM 2730 - Sport in Society **Credits: 3**
- SOC 1010 - People, Power, and Progress **Credits: 3**
- SOC 1020 - Globalization--The Transformation of Social Worlds **Credits: 3** (Global Diversity)
- SOC 1080 - Love and Family in East Asia **Credits: 3** (Global Diversity)
- SOC 1600 - Tourism and Society **Credits: 3**
- SOC 2010 - Social Problems **Credits: 3**
- SOC 2500 - Deviant Behavior in Society **Credits: 3**
- SWK 1010 - Introduction to Social Work **Credits: 3**
- SWK 1050 - How to Change the World **Credits: 3**
- SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**
- SWK 3110 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (Multicultural)
- TTM 1600 - Tourism and Society **Credits: 3**
- TTM 3700 - Global Tourism **Credits: 3** (Global Diversity)

## Global Diversity Requirement

**Description:** Global Diversity refers to a student's ability to critically analyze and engage complex, interconnected global systems (such as natural, physical, social, cultural, economic, or political) and their implications for individuals, groups, communities, or cultures. These courses will introduce students to various concepts toward valuing diversity and the importance of inclusivity. Students should seek to understand how their actions affect both local and global communities. Courses in this category must contain a majority of material from one or more regions or countries outside the U.S.

Students may fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences. If a course is used to fulfill both the global diversity requirement and another general studies category, only 3 semester hours will apply to the student's degree requirements.

## Student Learning Outcomes

Students must select one course from an approved category that also meets the following student learning outcomes. This course will count in both categories.

- Describe the implications of global interconnections, including their impact on culture, societies, the environment, or the individual.
- Analyze connections between worldviews, experiences, and/or power structures of differing cultures in historical or contemporary contexts.

## Courses

**Select one:**

- AAS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Social and Behavioral Sciences)
- AAS 3930 - African Authors **Credits:** 3 (Arts and Humanities)
- AAS 1130 - Survey of African History **Credits:** 3 (History)
- ANT 1010 - Introduction to Biological Anthropology **Credits:** 3 (Natural and Physical Sciences)
- ANT 1310 - Introduction to Cultural Anthropology **Credits:** 3 (Social and Behavioral Sciences)
- ANT 1650 - Ancient Civilizations **Credits:** 3 (History)
- ANT 3375 - Food Cultures **Credits:** 3 (Social and Behavioral Sciences)
- ANT 3379 - Middle Eastern Cultures **Credits:** 3 (Social and Behavioral Sciences)
- ANT 3395 - Transnational Genders and Sexualities **Credits:** 3 (Social and Behavioral Sciences)
- ANT 3530 - Writing Systems and Scribal Traditions **Credits:** 3 (Arts and Humanities)
- ANT 3640 - Biblical Archaeology **Credits:** 3 (Social and Behavioral Sciences)
- ANT 3650 - 100,000 Years of War **Credits:** 3 (Social and Behavioral Sciences)
- ARTH 1600 - World Art I: Art Prior to 1400 **Credits:** 3 (Arts and Humanities)
- ARTH 1700 - World Art II: Art 1400-1900 **Credits:** 3 (Arts and Humanities)
- BUS 3010 - Global Business Experience **Credits:** 3 (Social and Behavioral Sciences)
- CHI 1020 - Elementary Chinese II **Credits:** 5 (Arts and Humanities)
- CHS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Social and Behavioral Sciences)
- ECO 3800 - Development Economics **Credits:** 3 (Social and Behavioral Sciences)
- ENG 2170 - Medieval Mythologies **Credits:** 3 (Arts and Humanities)
- ENG 2810 - Vampire Films **Credits:** 3 (Arts and Humanities)
- ENG 2850 - International Film **Credits:** 3 (Arts and Humanities)
- FRE 1020 - Elementary French II **Credits:** 5 (Arts and Humanities)
- GEG 1000 - World Regional Geography **Credits:** 3 (Social and Behavioral Sciences)
- GEG 1300 - Introduction to Human Geography **Credits:** 3 (Social and Behavioral Sciences)
- GEG 1910 - Global Water Concerns **Credits:** 3 (Natural and Physical Sciences)
- GEG 3230 - Latin American Geographies **Credits:** 3 (Social and Behavioral Sciences)
- GER 1020 - Elementary German II **Credits:** 5 (Arts and Humanities)
- GWS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Social and Behavioral Sciences)
- GWS 1600 - Women in World History **Credits:** 3 (History)
- GWS 3270 - Beauty Cultures **Credits:** 3 (Arts and Humanities)
- GWS 3395 - Transnational Genders and Sexualities **Credits:** 3 (Social and Behavioral Sciences)
- GWS 3930 - Theories of Love and Sex **Credits:** 3 (Social and Behavioral Sciences)
- HCM 2010 - Global Health Systems **Credits:** 3 (Social and Behavioral Sciences)
- HIS 1005 - Ancient Civilizations **Credits:** 3 (History)
- HIS 1030 - World History to 1500 **Credits:** 3 (History)
- HIS 1035 - The Medieval World **Credits:** 3 (History)
- HIS 1040 - World History since 1500 **Credits:** 3 (History)
- HIS 1045 - Europe, Renaissance to the Present **Credits:** 3 (History)
- HIS 1250 - China and East Asia **Credits:** 3 (History)
- HIS 1270 - India and South Asia **Credits:** 3 (History)
- HIS 1300 - Introduction to Latin American History **Credits:** 3 (History)
- HIS 1600 - Women in World History **Credits:** 3 (History)
- HIS 1700 - Nature and Society **Credits:** 3 (Historical)
- HIS 1940 - Survey of African History **Credits:** 3 (History)
- HIS 3705 - 100,000 Years of War **Credits:** 3 (Social and Behavioral Sciences)
- HIS 3706 - Biblical Archaeology **Credits:** 3 (Social and Behavioral Sciences)
- HIS 3785 - Science and Technology in World History **Credits:** 3 (Social and Behavioral Sciences)
- HON 1040 - World History since 1500 **Credits:** 3 (History)
- HON 1311 - Introduction to Cultural Anthropology **Credits:** 3 (Social and Behavioral Sciences)
- HON 1600 - World Art I: Art Prior to 1400 **Credits:** 3 (Arts and Humanities)
- HON 1700 - World Art II: Art 1400-1900 **Credits:** 3 (Arts and Humanities)
- HON 2230 - Introduction to International Relations **Credits:** 3 (Social and Behavioral Sciences)
- HON 2770 - Dynamics of Change **Credits:** 3 (Social and Behavioral Sciences)
- IND 2810 - Technology and Design: Global Perspectives **Credits:** 3 (Social and Behavioral Sciences)
- ITA 1020 - Elementary Italian II **Credits:** 5 (Arts and Humanities)
- JPS 1020 - Elementary Japanese II **Credits:** 5 (Arts and Humanities)
- LING 3090 - Writing Systems and Scribal Traditions **Credits:** 3 (Arts and Humanities)
- MKT 2010 - Marketing Around the Globe **Credits:** 3 (Social and Behavioral Sciences)
- MTR 1600 - Global Climate Change **Credits:** 3 (Natural and Physical Sciences)
- MUS 3015 - Global Pop **Credits:** 3 (Arts and Humanities)

- MUS 3050 - Musics of the World **Credits:** 3 (Arts and Humanities)
- MUS 4000 - Musics of Latin America **Credits:** 3 (Arts and Humanities)
- NAS 1030 - Introduction to Social Justice and Decoloniality **Credits:** 3 (Social and Behavioral Sciences)
- NUT 3350 - Global Nutrition and Health **Credits:** 3 (Social and Behavioral Sciences)
- NUT 3375 - Food Cultures **Credits:** 3 (Social and Behavioral Sciences)
- PHI 1040 - Introduction to Eastern Religions **Credits:** 3 (Arts and Humanities)
- PSC 2230 - Introduction to International Relations **Credits:** 3 (Social and Behavioral Sciences)
- PSC 2240 - Global Challenges in the Twenty-First Century **Credits:** 3 (Social and Behavioral Sciences)
- PSC 3379 - Middle Eastern Cultures **Credits:** 3 (Social and Behavioral Sciences)
- SOC 1020 - Globalization--The Transformation of Social Worlds **Credits:** 3 (Social and Behavioral Sciences)
- SOC 1080 - Love and Family in East Asia **Credits:** 3 (Social and Behavioral Sciences)
- SPA 1020 - Elementary Spanish II **Credits:** 5 (Arts and Humanities)
- TTM 3700 - Global Tourism **Credits:** 3 (Social and Behavioral Sciences)

# State-Guaranteed General Education Courses

The Colorado Commission on Higher Education has approved the following courses for inclusion in the Guaranteed Transfer (GT) Pathways program in the listed categories. For transferring students, successful completion with a minimum C- grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, and the most updated list of courses, go to

<http://higher.ed.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

## Courses

- AAS 1010 - Introduction to Africana Studies **Credits: 3**
- AAS 1130 - Survey of African History **Credits: 3**
- AAS 2100 - Women of Color **Credits: 3**
- ANT 1010 - Introduction to Biological Anthropology **Credits: 3**
- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**
- ANT 1650 - Ancient Civilizations **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ARTH 1500 - Art and Visual Literacy **Credits: 3**
- AST 1040 - Introduction to Astronomy - Solar System **Credits: 4**
- AST 1050 - Introduction to Astronomy - Stars and Galaxies **Credits: 4**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3**
- CHS 2100 - Women of Color **Credits: 3**
- CJC 1010 - Introduction to the Criminal Justice System **Credits: 3**
- COMM 2200 - Introduction to Interpersonal Communication **Credits: 3**
- COMM 2300 - Introduction to Organizational Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- EDS 1001 - Educational (In)Equality in the 21st Century **Credits: 3**
- ENG 1009 - Stretch Composing Arguments B **Credits: 3**
- ENG 1010 - Composing Arguments **Credits: 3**
- ENG 1020 - Research and Argument Writing **Credits: 3**
- ENG 1021 - Honors Research and Argument Writing **Credits: 3**
- ENG 1100 - Introduction to Literature **Credits: 3**
- ENG 2340 - Shakespeare and Popular Culture **Credits: 3**
- ENG 2410 - Survey of Chicana/o Literature **Credits: 3**
- ENG 2460 - Introduction to Children's Literature **Credits: 3**
- ENG 2500 - Introduction to Creative Writing **Credits: 3**
- ENG 2513 - Disability Rhetorics **Credits: 3**
- ENG 2820 - Aviation in Film and Literature **Credits: 3**
- ENG 2850 - International Film **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3526 - Writing in the Sciences **Credits: 3**
- ENG 3527 - Professional Writing **Credits: 3**
- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- GEG 1300 - Introduction to Human Geography **Credits: 3**
- GEG 1700 - Principles of Sustainability **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3**
- GEG 2020 - Geography of Colorado **Credits: 3**
- GEG 2700 - Geographies of Environmental Justice **Credits: 3**
- GEL 1010 - Physical Geology **Credits: 4**
- GEL 1020 - Geology of Colorado **Credits: 3**
- GEL 1150 - Physical Oceanography **Credits: 3**
- GEL 1030 - Historical Geology **Credits: 4**
- GWS 1001 - Introduction to Gender, Women, and Sexualities Studies **Credits: 3**
- GWS 1200 - Multicultural Study of Sexualities and Genders **Credits: 3**
- GWS 1550 - Introduction to Transgender Studies **Credits: 3**
- GWS 1600 - Women in World History **Credits: 3**
- GWS 2100 - Women of Color **Credits: 3**
- GWS 2400 - Women's Folklore and Folklife **Credits: 3**
- HIS 1005 - Ancient Civilizations **Credits: 3**
- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1035 - The Medieval World **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1045 - Europe, Renaissance to the Present **Credits: 3**
- HIS 1150 - Multicultural America **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- HIS 1250 - China and East Asia **Credits: 3**
- HIS 1270 - India and South Asia **Credits: 3**
- HIS 1300 - Introduction to Latin American History **Credits: 3**
- HIS 1600 - Women in World History **Credits: 3**
- HIS 1700 - Nature and Society **Credits: 3**
- HIS 1940 - Survey of African History **Credits: 3**

- HIS 3000 - Historical Writing and Thinking **Credits: 3**
- HON 1000 - Introduction to Music **Credits: 3**
- HON 1003 - Introduction to Chicana/o Studies **Credits: 3**
- HON 1011 - Introduction to Philosophy **Credits: 3**
- HON 1023 - Comparative Politics **Credits: 3**
- HON 1040 - World History since 1500 **Credits: 3**
- HON 1211 - American History to 1865 **Credits: 3**
- HON 1221 - American History since 1865 **Credits: 3**
- HON 1311 - Introduction to Cultural Anthropology **Credits: 3**
- HON 1500 - Art and Visual Literacy **Credits: 3**
- HON 2010 - Principles of Macroeconomics **Credits: 3**
- HON 2020 - Principles of Microeconomics **Credits: 3**
- HON 2040 - Introduction to Nutrition **Credits: 3**
- HON 2230 - Introduction to International Relations **Credits: 3**
- HSP 1010 - Introduction to Human Services **Credits: 3**
- IND 2810 - Technology and Design: Global Perspectives **Credits: 3**
- JMP 1000 - Introduction to Journalism and Mass Media **Credits: 3**
- MET 1040 - Introduction to Engineering **Credits: 3**
- MTH 1080 - Mathematics for Liberal Arts **Credits: 3**
- MTH 1081 - Mathematics for Liberal Arts with Laboratory **Credits: 3**
- MTH 1109 - College Algebra Stretch, Part II **Credits: 4**
- MTH 1110 - College Algebra for Calculus **Credits: 4**
- MTH 1111 - College Algebra for Calculus with Laboratory **Credits: 4**
- MTH 1112 - College Algebra Through Modeling **Credits: 4**
- MTH 1115 - College Algebra through Modeling with Laboratory **Credits: 4**
- MTH 1120 - College Trigonometry **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**
- MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits: 4**
- MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory **Credits: 4**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3**
- MTH 1400 - Precalculus Mathematics **Credits: 4**
- MTH 1410 - Calculus I **Credits: 4**
- MTH 1610 - Integrated Mathematics I **Credits: 3**
- MTR 1400 - Weather and Climate **Credits: 3**
- MTR 1600 - Global Climate Change **Credits: 3**
- MUS 1000 - Introduction to Music **Credits: 3**
- MUS 1050 - History of Rock and Roll **Credits: 3**
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- PHI 1010 - Introduction to Philosophy **Credits: 3**
- PHI 1030 - Introduction to Ethics **Credits: 3**
- PHI 1040 - Introduction to Eastern Religions **Credits: 3**
- PHI 1050 - Introduction to Western Religions **Credits: 3**
- PHI 1060 - Ethics in Medicine and Science **Credits: 3**
- PHI 2040 - Philosophy of Religion **Credits: 3**
- PHY 1000 - Introduction to Physics **Credits: 4**
- PHY 1250 - Physics of Aviation **Credits: 6**
- PHY 2010 - College Physics I **Credits: 4**
- PHY 2020 - College Physics II **Credits: 4**
- PHY 2030 - College Physics I Laboratory **Credits: 1**
- PHY 2040 - College Physics II Laboratory **Credits: 1**
- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**
- PSC 1010 - American National Government **Credits: 3**
- PSC 1020 - Comparative Politics **Credits: 3**
- PSC 1030 - Multicultural Politics for Non-Majors **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**
- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- PHY 2309 - Stretch General Physics I B **Credits: 3**
- PHY 2620 - Sound and Music **Credits: 3**
- SCI 2600 - Integrated Biology and Earth Science **Credits: 3**
- SCI 2610 - Integrated Physical and Chemical Sciences **Credits: 3**
- SOC 1010 - People, Power, and Progress **Credits: 3**
- SOC 1020 - Globalization--The Transformation of Social Worlds **Credits: 3**
- SOC 1080 - Love and Family in East Asia **Credits: 3**
- SOC 2010 - Social Problems **Credits: 3**
- SOC 2500 - Deviant Behavior in Society **Credits: 3**
- SLHS 1500 - Introduction to Communication Sciences **Credits: 3**
- SWK 1010 - Introduction to Social Work **Credits: 3**
- SWK 1050 - How to Change the World **Credits: 3**
- SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**
- THE 2210 - Introduction to Theatre **Credits: 3**
- THE 3213 - Staging Cultures: Theatre, Drama, and Multiculturalism **Credits: 3**
- THE 2295 - Comedy: In-Print and On-Stage **Credits: 3**

# Multicultural Graduation Requirements

The required content and course materials for Multicultural coursework are designed to increase students' awareness and appreciation of cultural diversity in the United States. Multicultural coursework examines the interactions of values, beliefs, traditions, identities, and contributions of one or more of the following four groups of color in the United States: African American, Asian American, Hispanic American, and Native American, which may include the characteristics of gender, sexual orientation, age, or disability within these groups.

At the conclusion of a multicultural course, students will be able to:

- Define factors that lead to the formation and continuation of one or more of the four groups of color in United States society.
- Present the customs, behavioral patterns, and identities of one or more of the four groups of color in United States society.
- Delineate the effects of bias, prejudices, and discrimination on one or more of the four groups of color in United States society.
- Describe the cultural similarities, commonalities, and differences within or among one or more of the four groups of color in United States society.
- Communicate how the acceptance and inclusion of all groups of color enriches lives and increases the creativity and performance of everyone in United States society.

## Multicultural Courses (3 Semester Hours)

Select from the following courses:

- AAS 1010 - Introduction to Africana Studies **Credits: 3** (Social and Behavioral Sciences)
- AAS 2100 - Women of Color **Credits: 3** (Social and Behavioral Sciences)
- AAS 2200 - Politics and Black People **Credits: 3**
- AAS 3220 - Prejudice and Discrimination **Credits: 3**
- AAS 3240 - African American Literature **Credits: 3**
- AAS 3300 - The Black Community **Credits: 3**
- AAS 3440 - American Slavery **Credits: 3**
- AAS 3570 - African American History I **Credits: 3**
- AAS 3580 - African American History II **Credits: 3**
- AAS 3700 - Psychology of Group Prejudice **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3** (Social and Behavioral Sciences)
- ANT 3310 - Ethnography of North American Indians **Credits: 3**
- ANT 3335 - Asian American Experiences **Credits: 3**
- ANT 3340 - Native Americans in Historical Perspective **Credits: 3**

- ANT 3480 - Cultural Diversity in Health and Illness **Credits: 3**
- ARTH 3300 - Multiculturalism and American Art **Credits: 3**
- ARTH 3360 - Contemporary Chicana/o Art **Credits: 3**
- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3** (Social and Behavioral Sciences)
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3** (Arts and Humanities)
- CHS 2100 - Women of Color **Credits: 3** (Social and Behavioral Sciences)
- CHS 3020 - Chicana/o History, 1836 to the Present **Credits: 3**
- CHS 3025 - Contemporary Chicana/o Art **Credits: 3**
- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (Social and Behavioral Sciences)
- CHS 3200 - Chicanos and the Law **Credits: 3**
- CJC 3720 - Chicanos and the Law **Credits: 3**
- COMM 3000 - Diversity and Communication in the U.S. **Credits: 3** (Social and Behavioral Sciences)
- ECE 3860 - Cultural Socialization of Children **Credits: 3**
- ECO 3600 - Economics of Race and Gender **Credits: 3**
- EDS 1001 - Educational (In)Equality in the 21st Century **Credits: 3** (Social and Behavioral Sciences)
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3** (Social and Behavioral Sciences)
- EDU 1111 - Education within Diverse Communities **Credits: 3**
- EDU 3111 - Education in Diverse Communities **Credits: 3**
- EDU 3200 - Human Diversity: Applications to Multicultural Education **Credits: 3**
- ENG 2240 - Introduction to Native American Literature **Credits: 3**
- ENG 2410 - Survey of Chicana/o Literature **Credits: 3** (Arts and Humanities)
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3465 - Anti-Racist Children's Literature **Credits: 3** (Arts and Humanities)
- ENG 3722 - Native American Cinema **Credits: 3**
- ENG 3770 - Multicultural Cinema **Credits: 3**
- ENG 4633 - Spike Lee **Credits: 3**
- GEG 2700 - Geographies of Environmental Justice **Credits: 3** (Social and Behavioral Sciences)
- GEG 3300 - Indigenous Geographies of North America **Credits: 3**
- GWS 1200 - Multicultural Study of Sexualities and Genders **Credits: 3** (Social and Behavioral Sciences)
- GWS 2100 - Women of Color **Credits: 3** (Social and Behavioral Sciences)
- GWS 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits: 3**
- GWS 3220 - Prejudice and Discrimination **Credits: 3**
- GWS 3650 - Economics of Race and Gender **Credits: 3**

- GWS 3700 - Psychology of Group Prejudice **Credits: 3**
- GWS 4830 - Workforce Diversity **Credits: 3** (Senior Experience)
- HCM 3700 - Health Disparities in the U.S. **Credits: 3**
- HIS 1150 - Multicultural America **Credits: 3** (Historical)
- HIS 3420 - American West **Credits: 3**
- HIS 3426 - Colorado Water and the American West **Credits: 3**
- HIS 3440 - American Slavery **Credits: 3**
- HIS 3450 - Food in U.S. History **Credits: 3**
- HIS 3490 - Native American History **Credits: 3**
- HIS 3560 - Chicana/o History, 1836 to the Present **Credits: 3**
- HIS 3570 - African American History I **Credits: 3**
- HIS 3580 - African American History II **Credits: 3**
- HIS 3590 - American Immigration History **Credits: 3**
- HIS 3683 - American Religious History **Credits: 3**
- HON 1003 - Introduction to Chicana/o Studies **Credits: 3** (Social and Behavioral Sciences)
- HON 3101 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (Social and Behavioral Sciences)
- HON 3480 - Cultural Diversity in Health and Illness **Credits: 3**
- HON 3490 - Multicultural Issues in Human Services **Credits: 4**
- HON 3491 - Native American History **Credits: 3**
- HON 3570 - African American History I **Credits: 3**
- HON 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits: 3**
- HON 3703 - Health Disparities in the U.S. **Credits: 3**
- HON 3704 - Psychology of Group Prejudice **Credits: 3**
- HON 3760 - Diversity and Communication in the U.S. **Credits: 3** (Social and Behavioral Sciences)
- HON 4830 - Workforce Diversity **Credits: 3** (Senior Experience)
- HSP 3490 - Multicultural Issues in Human Services **Credits: 4**
- ITP 2810 - Men Across Cultures **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3** (Senior Experience)
- MKT 3750 - Multicultural Marketing **Credits: 3**
- MUS 3000 - Musics of America **Credits: 3** (Arts and Humanities)
- MUS 3020 - History of Jazz **Credits: 3** (Arts and Humanities)
- MUS 4010 - From Blues to Hip Hop: African American Musical Heritage **Credits: 3** (Arts and Humanities)
- NAS 1000 - Introduction to Native American Studies **Credits: 3**
- NAS 2240 - Introduction to Native American Literature **Credits: 3**
- NAS 2700 - Geographies of Environmental Justice **Credits: 3** (Social and Behavioral Sciences)
- NAS 3200 - Native American Politics **Credits: 3**
- NAS 3300 - Indigenous Geographies of North America **Credits: 3**
- NAS 3301 - Multiculturalism and American Art **Credits: 3**
- NAS 3722 - Native American Cinema **Credits: 3**
- NUR 3810 - Multicultural Care of Patients and Their Families **Credits: 3**
- NUT 3300 - Cultural Aspects of Nutrition **Credits: 3**
- PHI 2000 - Multicultural Identities in America **Credits: 3**
- PSC 1030 - Multicultural Politics for Non-Majors **Credits: 3** (Social and Behavioral Sciences)
- PSC 2200 - Politics and Black People **Credits: 3**
- PSC 3200 - Native American Politics **Credits: 3**
- PSC 3300 - Indigenous Geographies of North America **Credits: 3**
- PSY 3030 - Multicultural Psychology **Credits: 3**
- PSY 3170 - Social Justice: Self and Citizenship: A Service Learning Course **Credits: 3**
- PSY 3700 - Psychology of Group Prejudice **Credits: 3**
- SED 2200 - Diversity and Multicultural Education **Credits: 3**
- SOC 1040 - Introduction to Social Gerontology **Credits: 3**
- SOC 3140 - The Black Community **Credits: 3**
- SOC 3200 - Asian American Experiences **Credits: 3**
- SOC 3220 - Prejudice and Discrimination **Credits: 3**
- SPA 3220 - Folklore and Culture of the Mexican Southwest **Credits: 3**
- SWK 3110 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (Social and Behavioral Sciences)
- SWK 3120 - Privilege, Oppression, and Power **Credits: 3**
- SWK 3140 - The Black Community **Credits: 3**
- THE 3213 - Staging Cultures: Theatre, Drama, and Multiculturalism **Credits: 3** (Arts and Humanities)

### Transferability of Multicultural Credits

Transfer credits to meet the Multicultural requirement will be accepted under the following guidelines:

- Transferable courses equivalent to an existing Multicultural course will satisfy the MSU Denver Multicultural requirement. Equivalency will be determined by the department offering the course. Once a course has been approved by a department, it will be given the status of an approved transferable Multicultural course.
- The Multicultural Curriculum Review Committee will evaluate courses that do not have a University equivalent course to determine if the course meets MSU Denver criteria for the Multicultural course requirement.
- A one-hour deviation in the Multicultural requirement will be allowed when the transferable course meets MSU Denver's Multicultural definition and course criteria.
- An appeal can be made to the Associate Vice President of Curriculum and Academic Effectiveness.

# Senior Experience Graduation Requirements

The Senior Experience course provides a culmination of the undergraduate experience, allowing students to synthesize their learning, using critical analysis and logical thinking. Students may use the course to satisfy major or minor requirements if the course is approved for that use. Students should consult with their advisor and check prerequisites. Students must complete a Senior Experience course at the end of the undergraduate program and must take the course or courses at MSU Denver. Senior Experience courses include "senior standing" as a prerequisite in addition to other prerequisites designated by the department. In some cases, students may need to take two courses to satisfy the requirement. See an advisor in the major for specific degree requirements.

## Senior Experience Courses

The following courses are approved to satisfy the Senior Experience requirement. Students should review the requirements of their specific degree program to see which Senior Experience course is required for that program. If uncertainty exists as to which Senior Experience course is appropriate, the student should consult the department offering the student's degree program.

- AAS 4850 - Research Seminar in Africana Studies **Credits: 3**
- AES 4210 - Airport Planning and Management II **Credits: 3**
- AES 4910 - Aviation and Aerospace Strategic Planning **Credits: 3**
- AES 4930 - Professional Flight Standards Seminar **Credits: 3**
- AMS 4700 - Team Project Experience **Credits: 3**
- AMS 4950 - Professional Internship **Credits: 1-15**
- ANT 4100 - Biological Anthropology Research Design **Credits: 3**
- ANT 4251 - Advanced Ethnographic Field Experience **Credits: 3**
- ANT 4710 - Advanced Archaeological Research **Credits: 3**
- ART 4701 - Studio Art Senior Experience: Exhibition and Thesis **Credits: 3**
- ART 4703 - Student Teaching and Seminar: Elementary K-6 **Credits: 6**
- BIO 4230 - Issues in Conservation Biology **Credits: 3**
- BIO 4300 - Neurobiology **Credits: 3**
- BIO 4510 - Microbial Ecology **Credits: 4**
- BIO 4540 - Plant Ecology **Credits: 4**
- BIO 4550 - Animal Ecology **Credits: 4**
- BIO 4820 - Developmental Biology **Credits: 4**
- BIO 4850 - Evolution **Credits: 3**
- BVG 4850 - Applied Brewing Operations **Credits: 3**
- CDES 4600 - Communication Design Portfolio Development **Credits: 3**
- CDES 4721 - Communication Design Senior Experience: Exhibition and Thesis **Credits: 3**
- CET 4100 - Capstone: Design Project I **Credits: 1**
- CET 4110 - Capstone: Design Project II **Credits: 2**
- CHE 4300 - Advanced Inorganic Chemistry **Credits: 4**
- CHE 4390 - Advanced Biochemistry Laboratory **Credits: 3**
- CHE 4710 - Criminalistics Internship II **Credits: 3**
- CHE 4950 - Senior Experience in Chemistry **Credits: 3**
- CHE 4960 - Senior Experience in Biochemistry **Credits: 3**
- CHS 4850 - Research Experience in Chicana/o Studies **Credits: 3**
- CIS 4050 - Systems Analysis and Design **Credits: 3**
- CIS 4920 - Health Care Information Systems Internship **Credits: 3**
- CJC 4700 - Capstone Seminar in Criminal Justice and Criminology **Credits: 3**
- CLD 4225 - CLD Residency II **Credits: 3-9**
- COMM 4420 - Freedom of Speech **Credits: 3**
- COMM 4910 - Applied Communication Research Project **Credits: 3**
- COMM 4920 - Senior Seminar **Credits: 3**
- COMM 4930 - Senior Communication Internship **Credits: 3**
- CPE 4700 - Senior Design I **Credits: 1**
- CPE 4800 - Senior Design II **Credits: 2**
- CPM 4950 - Professional Internship **Credits: 1-15**
- CS 4260 - Software Engineering Practices **Credits: 4**
- CS 4360 - Senior Experience in Computer Science **Credits: 4**
- CYB 4990 - Capstone Seminar in Cybersecurity **Credits: 3**
- DANC 4990 - Dance Senior Experience **Credits: 3**
- ECO 4600 - History of Economic Thought **Credits: 3**
- ECO 4800 - Economic Policy Analysis **Credits: 3**
- ECE 4350 - Senior Experience in Early Childhood Education **Credits: 3**
- ECE 4390 - Student Teaching and Seminar: Early Childhood (Preschool through Third Grade) **Credits: 6,12**
- ECE 4395 - Student Teaching and Seminar: Early Childhood Special Education (Preschool through Third Grade) **Credits: 6 or 12**
- ECE 4425 - Early Childhood Residency II **Credits: 9**
- EDS 4010 - Action Research within Communities of Practice **Credits: 3**
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**
- EDU 4190 - Elementary Student Teaching and Seminar: K-6 **Credits: 6,12**
- EDU 4225 - Residency II **Credits: 9**
- EDU 4226 - CLD Residency II **Credits: 9**
- EET 4100 - Senior Project I **Credits: 1**
- EET 4110 - Senior Project II **Credits: 2**

- ENG 4500 - Senior Project **Credits: 3**
- ENG 4520 - Senior Project: Writing **Credits: 3**
- ENG 4640 - Teaching English, 7-12 **Credits: 3**
- ENG 4660 - Teaching Literature and Language K-6 **Credits: 3**
- ENV 4960 - Global Environmental Challenges **Credits: 3**
- ENV 4970 - Environmental Field Studies **Credits: 3**
- EVE 4610 - Senior Design Project **Credits: 3**
- EVT 4030 - Advanced Planning and Risk Management **Credits: 3**
- FER 4610 - Disaster Planning and Control **Credits: 3**
- FRE 4520 - Modern French Theater **Credits: 3**
- FRE 4530 - The French Novel **Credits: 3**
- GEG 4975 - Geography Capstone **Credits: 3**
- GEL 4970 - Undergraduate Research in Geology **Credits: 4**
- GIS 4890 - Advanced GIS Project **Credits: 3**
- GIS 4910 - Satellite Image Processing and Analysis **Credits: 3**
- GIS 4920 - Advanced Directed Study in Geospatial Sciences **Credits: 3**
- GWS 4750 - Feminist Research and Activism **Credits: 3**
- HCM 4161 - Disaster Planning and Control **Credits: 3**
- HCM 4510 - Health Care Management Practicum **Credits: 6**
- HCM 4920 - Health Care Information Systems Internship **Credits: 3**
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**
- HIS 4820 - Senior Seminar **Credits: 3**
- HLDR 4500 - Applied Leadership in Hospitality **Credits: 3**
- HON 4300 - Advanced Inorganic Chemistry **Credits: 4**
- HON 4320 - Advanced Psychological Research Methods **Credits: 3**
- HON 4830 - Workforce Diversity **Credits: 3**
- HON 4910 - Aviation and Aerospace Strategic Planning **Credits: 3**
- HON 4960 - Global Environmental Challenges **Credits: 3**
- HPS 4870 - Internship for Athletic Training **Credits: 10**
- HSP 4770 - Human Services Internship I **Credits: 8**
- HSP 4780 - Human Services Internship II **Credits: 8**
- HSP 4790 - Human Services Internship III **Credits: 6 or 12**
- HPS 4950 - Community Coaching for Health **Credits: 3**
- HTE 4000 - Hospitality Field Experience **Credits: 3**
- HTL 4500 - Applied Hotel Management **Credits: 3**
- IND 4960 - Professional Internship **Credits: 3**
- ITP 4900 - Theories and Application of Knowledge for Integrative Health **Credits: 3**
- ITP 4950 - Community Coaching for Health **Credits: 3**
- ITP 4990 - Internship in Integrative Therapeutic Practices **Credits: 3-6**
- JMP 4480 - Professional Capstone Project **Credits: 3**
- JMP 4500 - Ethical and Legal Issues in Journalism **Credits: 3**
- JMP 4790 - Senior Seminar **Credits: 3**
- LING 4060 - Modern Language Theory **Credits: 3**
- MET 4100 - Senior Project I **Credits: 1**
- MET 4110 - Senior Project II **Credits: 2**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- MGT 4430 - Operationalizing a Small Business **Credits: 3**
- MGT 4700 - Global Management **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 4250 - Advanced Selling **Credits: 3**
- MTH 4210 - Probability Theory **Credits: 4**
- MTH 4410 - Real Analysis I **Credits: 4**
- MTH 4480 - Numerical Analysis I **Credits: 4**
- MTL 4630 - Teaching Secondary Mathematics **Credits: 3**
- MTR 4600 - Meteorology Research Seminar **Credits: 3**
- MUS 4740 - Senior Recital Performance **Credits: 3**
- MUS 4790 - Senior Recital Project **Credits: 1**
- MUS 4800 - Seminar in Music Repertoire **Credits: 2**
- MUS 4899 - Commercial Music Capstone **Credits: 3**
- MUS 4950 - Senior Project **Credits: 3**
- NUR 4860 - Nursing Capstone: Culmination of the Magnet Journey **Credits: 3**
- NURA 4850 - Nursing Senior Experience **Credits: 5**
- NURS 4850 - Nursing Senior Experience **Credits: 5**
- NUT 4720 - Nutrition Capstone **Credits: 3**
- PHI 4100 - Senior Seminar **Credits: 3**
- PHY 4611 - Computational Physics **Credits: 3**
- PHY 4711 - Advanced Physics I Laboratory **Credits: 2**
- PHY 4721 - Advanced Physics II Laboratory **Credits: 2**
- PSC 4020 - Special Studies **Credits: 3**
- PSY 4320 - Advanced Psychological Research Methods **Credits: 3**
- PSY 4330 - Psychology in the "Real World": Thinking Like a Psychologist **Credits: 3**
- PSY 4510 - History and Systems of Psychology **Credits: 3**
- PSY 4650 - Advanced Internship in Psychology **Credits: 3**
- PSY 4700 - Senior Experience in Human Development and Family Studies **Credits: 3**
- RECR 4890 - Internship in Recreation, Parks, or Therapeutic Recreation **Credits: 10-14**
- RST 4500 - Concept Development for Restaurants **Credits: 3**
- SED 4440 - K-12 Practicum in Special Education **Credits: 3 or 6**
- SED 4490 - Special Education Student Teaching and Seminar **Credits: 6 or 12**
- SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences **Credits: 3**
- SLHS 4350 - Speech-Language Pathology Assistant Methods **Credits: 7**
- SM 4860 - Seminar in Sport Management **Credits: 3**

- SOC 4600 - Advanced Survey Research **Credits: 3**
- SOC 4710 - Advanced Qualitative Methods **Credits: 3**
- SPA 4200 - Spanish-American Essay: 19th and 20th Centuries **Credits: 3**
- SPA 4310 - History of the Spanish Language **Credits: 3**
- SSE 4610 - Senior Design Project **Credits: 3**
- SWK 4500 - Professional Field Experience I **Credits: 3**
- SWK 4510 - Professional Field Experience II **Credits: 3**
- THE 4202 - Theatre Career Development II **Credits: 3**
- TTM 4800 - Inbound Tourism **Credits: 3**

# General University Policies

## Contents

- [Academic Considerations for Students who Nurse after Childbirth](#)
- [Children in Classrooms and Workplaces Policy](#)
- [Computing Accounts Policy for Responsible Use of Information Technology Resources](#)
- [Electronic Communication Policy](#)
- [Health Insurance Requirement](#)
- [Immunizations](#)

Additional University Policies pertaining to Amorous Relationships, Discrimination, Equal Opportunity, Harassment, Sexual Harassment, and Violence, along with other University Policies, can be found in the Metropolitan State University of Denver Policy Library (<https://www.msudenver.edu/policy/policy-library/>).

Additional University Policies pertaining to Email, Computing, Security, and Electronic Communications, along with other University Policies, can be found in the Metropolitan State University of Denver Policy Library (<https://www.msudenver.edu/policy/policy-library/>).

## Academic Considerations for Students who Nurse after Childbirth

It is recognized that some women will choose to nurse after childbirth, and Metropolitan State University of Denver is committed to creating a supportive environment for nursing mothers that includes lactation facilities on campus. A summary of the on-campus lactation facilities listed by building and an explanation of how to access these spaces is provided at the end of this policy. The locations can also be found at this URL: [https://www.ahcc.edu/files/general/Lactation\\_Room\\_Map.pdf](https://www.ahcc.edu/files/general/Lactation_Room_Map.pdf). Note that refrigeration services are generally not available and that students should plan accordingly.

Students who choose to nurse after childbirth are responsible for considering the following recommendations when selecting classes during the semester(s) in which expressing (pumping) milk will occur.

- Schedule classes that meet for no more than two hours at a time.
- Schedule classes that are not back-to-back to ensure ample time between classes for pumping to occur.
- Allow enough time between your work schedule and classes to ensure ample time for pumping prior to the beginning of class.
- Consider on-line courses if this mode of instruction fits better with your pumping needs.
- Be aware that there is a higher percentage of summer semester courses (compared with fall and spring semester

courses) that are longer in length, and that certain summer semester courses may not be suitable choices.

The university supports a mother's choice to nurse; however, the requirements associated with each mother's circumstance can vary significantly. It is the student's responsibility to make the right course selection using the above guidelines in order to avoid missing class time and interrupting the learning process.

In general, the university and its faculty expect that students choosing to nurse will plan ahead as is outlined in this document so that the ongoing academic mission of the institution is not interrupted. A critical component for successful learning is class attendance, and in some classes, active course participation is also an important factor. For this reason, students who are expecting to nurse after childbirth are responsible for designing their class schedule in a manner that does not interfere with the allotted instruction time for any of their registered courses.

For any anticipated unique exceptions in which class instruction time may be impacted by a need to pump, a student is required (before registering for such a course) to schedule a meeting with the course instructor and the appropriate associate/assistant dean. At this meeting it will be determined if it is advisable for the student to register for the course in question. This will be determined by an assessment of the anticipated time away from class to pump and the implications to the educational requirements of the course. Any such exceptions agreed upon must be put in writing by the faculty member teaching the course and provided to the student and the Dean's Office within one week following such a meeting. There are no course penalties associated with agreed upon times for lactation between faculty and student. However, in all cases the faculty member will maintain the same course standards required of all students registered for the course and as outlined in the course syllabus.

### MSU Denver PRIMARY Lactation Room Locations and Access Instructions

Building	Room Number/Address	How to Access Lactation Space
Student Success Building (SSB)	Room 321	Access to the lactation room in the Student Success Bldg requires women to obtain a key from <b>Human Resources in room 309</b> . Women may check out a key for one semester and renew as needed.
Science (SI)	Room 2088	Access to the lactation room in the Science Building requires that women check out a key from the <b>Institute for Women's Studies and Services at 1059 Ninth Street Park</b> . Women may check out a key for one semester and renew as needed.

		*Location has a refrigerator, sink and power outlets.
<b>Institute for Women's Studies and Services</b>	<b>1059 Ninth Street Park</b>	Access to the lactation room in the <b>Institute for Women's Studies and Services</b> is on a walk-in basis 8 a.m. to 5 p.m. Monday-Friday. Women need only to check in with a staff member in the reception area.  *Location has sinks, microwave and refrigerators. Minimal, temporary storage for breast milk and/or pumps.

		Arrangements must be made in advance before first use of room.
<b>King Center (KC)</b>	<b>Political Science Department, Room 498</b>	Access to the lactation space room in the <b>King Center</b> can be gained by meeting with the Political Science Department office manager (room 498) to arrange for such use. Arrangements must be made in advance before first use of room.

**MSU Denver SECONDARY Lactation Room Locations and Access Instructions**

<b>Building</b>	<b>Inquire at this Location Within the Building</b>	<b>How to Access Lactation Space</b>
<b>Plaza Building (PL)</b>	<b>Health Center at Auraria, Room 150</b>	Access to the lactation space room in the <b>Plaza Building</b> can be gained by meeting with Health Center personnel (room 150) to arrange for such use. Arrangements must be made in advance before first use of room.
<b>Central Classroom (CN)</b>	<b>Social Work Department, Room 201</b>	Access to the lactation space room in <b>Central Classroom</b> can be gained by meeting with the Social Work Department (SWK) personnel (room 201) to arrange for such use. Arrangements must be made in advance before first use of room.
<b>Administration Building (AD)</b>	<b>West Campus, School of Business Dean's Office Room 540</b>	Access to the lactation space room in the <b>Administration Building</b> can be gained by meeting with the School of Business personnel in the Dean's Office (room 540) to arrange for such use. Arrangements must be made in advance before first use of room.
<b>Arts Building (AR)</b>	<b>Art Department, Room 187C</b>	Access to the lactation space room in the <b>Arts Building</b> can be gained by meeting with the Art Department office manager (room 187C) to arrange for such use.

## Children in Classrooms and Workplaces Policy

Metropolitan State University of Denver has an obligation to its students, faculty, staff, and visitors to conduct its operations and maintain its facilities in a manner consistent with its mission as an institution of higher education. For reasons that include safety of children, and assuring professional and efficient performance of academic pursuits and campus operations, the University cannot routinely accommodate children in campus workplaces or classrooms.

Presence in classrooms is restricted to enrolled students or visitors with a legitimate purpose, who may be adults or minors. Instructors of record are responsible for ensuring that individuals who attend their classes are properly enrolled or have been invited for the purpose of making special announcements, guest lecturing, or other authorized reasons. Instructors have the responsibility to ensure that the classroom is conducive to student learning and may address disruptive or distracting situations as appropriate.

Instructors have the discretion to make infrequent exceptions due to temporary, unforeseen emergencies. In these cases, children must remain in the classroom and are not allowed to sit in the hallway or be unsupervised in any location on campus. Regular repeated visits by children or others without a legitimate purpose are not permitted. Unless properly supervised, and with pre-approval, children are not permitted in labs, shops, construction/repair sites, or other areas where potential hazards exist. Children brought on campus must be directly supervised at all times by their parent or guardian. Leaving children unattended is a violation of the MSU Denver Student Code of Conduct.

### Definitions

1. Children: Minors under the age of 18.
2. Minors Enrolled as Students: Enrolled students under the age of 18 have the rights and privileges of any other student in the classroom and on campus grounds.

## Health Insurance Requirement

MSU Denver students taking nine (9) or more credit hours in the Fall or Spring are **required to have health insurance** that complies with the University requirement. To learn about the health insurance

requirement, please view a brief video at:  
<https://msudenver.edu/healthcenter/msudenverplans/>

**Students can meet the requirement by fulfilling option one or two:**

**Option One:** Students can accept automatic enrollment in the University sponsored Student Health Insurance Plan (SHIP). Enrollment is automatic when a student registers for nine or more credit hours in the Fall or Spring semester.

**Option Two:** Students insured by an outside federally compliant health plan can submit an online health insurance waiver form by the published semester deadline to opt-out of the University sponsored SHIP.

Additional details regarding both options can be found by going to: <https://msudenver.edu/healthcenter/msudenverplans/>

The Student Health Insurance Plan (SHIP) is designed specifically for MSU Denver students (regardless of immigration status) **taking nine (9) or more credit hours in the Fall or Spring semesters.** This comprehensive plan is designed to comply with any federal requirement, save students money and time, and provide convenient access to quality medical care on and off campus. SHIP provides twelve (12) months of insurance coverage for students taking nine (9) or more credit hours in both the Fall and Spring semesters.

**SHIP OFFERS STUDENTS EXCLUSIVE BENEFITS & SAVINGS AT THE HEALTH CENTER AT AURARIA:**

100% coverage for all medical services;

- \$0 office visits, procedures and supplies
- \$20 maximum cost per prescription
- NO deductible, NO co-insurance, NO co-payments

For students with outside health insurance, who are taking nine or more credit hours, an electronic waiver form is required each Fall and Spring semester. Students who initially register for nine or more credit hours, but subsequently drop below nine credit hours before the waiver compliance deadline, will automatically have the insurance charge removed from their tuition bill and will not be

covered by the University-offered health insurance for the current semester. Student taking less than nine (9) credit hours are not permitted to voluntarily participate in the University-offered student health insurance plan.

If a semester premium is not paid in full, any submitted claims during that semester will be denied. For additional insurance information go to: <https://msudenver.edu/healthcenter/msudenverplans/>

## **Immunizations**

Colorado State law requires any student enrolled for one or more credit hours in higher education to comply with the State's immunization policy. This policy also applies to active military students, graduate students, students taking on-line only classes and those studying abroad.

The immunization requirement is in place to ensure the health and safety of all constituents on the Auraria campus and the University is required by State law to enforce this requirement in the interest of public health.

Students must comply with the State of Colorado's Immunization Policy requirements for higher education by submitting documentation of their previous immunizations, specifically providing proof of 2 doses of combined MMR vaccine (measles/mumps/rubella.) or proof of having received two doses of measles vaccine, two doses of mumps vaccine and two doses of rubella vaccine. This documentation must be submitted during the first semester of attendance by the immunization deadline to the Auraria Immunizations Office. The summer/fall deadline is October 1 and the spring deadline is March 1.

**Students who do not comply with this requirement will not be able to register for future semesters. Non-compliant students will have an immunization "hold" put on their account if they have not submitted their immunization documentation by the published deadline during their first semester of attendance.**

For additional information go to:  
<https://healthcenter1.com/immunization-requirement/>.

# Graduation

The Office of the Registrar is located in the Student Success Building, suite 160 (#3). They are responsible for making approved degree exceptions to students' degree progress reports, performing final degree checks, preparing for the fall and spring commencement ceremonies, conferring degrees and certificates, and distributing diplomas.

For more information on graduation, click on a link to be taken to the entry below.

- [Degree Progress Report](#)
- [Graduation Procedures](#)
- [Graduation Checklist](#)
- [Diplomas and Transcripts](#)
- [Commencement Ceremony](#)

## Degree Progress Report

The Degree Progress Report is an advising tool that should be used by students and their advisors throughout the student's academic career at MSU Denver. Degree Progress Reports can be viewed by logging on to the Student Hub, or printed/viewed in the student's Major department.

## Graduation Procedures

Students who anticipate completing all degree requirements within the next two semesters should review the following sections of this catalog: Requirements for All Bachelor Degrees, Academic Policies and Procedures, Graduation, Diplomas and Commencement, Honors and Awards.

Students should review their Degree Progress Report throughout their attendance by logging on to the Student Hub. Students should review their Degree Progress report with a faculty advisor. If any degree exceptions are needed, the department will submit a degree exception. Once degree exceptions are made, students will be notified through their MSU Denver email account.

All students formally declare their degree/certificate candidacy by submitting an Application for Graduation via the Student Hub prior to their anticipated semester of graduation, but no later than the deadline stipulated in the Academic Calendar. Students who miss the deadline to apply for graduation must apply for a subsequent semester.

After submitting the Application for Graduation, students will have their academic records reviewed for completion of all degree requirements. All degree applicants will be notified of their graduation status and any discrepancies that exist via their student email. Students will be given a deadline by which to explain these discrepancies to the Office of the Registrar. Students will not be eligible to remain a graduation candidate if they do not comply with this deadline. As graduation candidates, students will receive information about the final steps in the graduation process and the commencement ceremony. Students should ensure that their current

address is on file. If students need to make a change or update to a recently submitted Graduation Application, they must submit a Graduation Application Addendum form, which can be obtained from the Office of the Registrar.

## Graduation Checklist

- Review the Requirements for your degree/certificate program.
- Review the Academic Policies and Procedures (pertaining to your Degree Progress Report, graduation, diplomas and commencement, and honors and awards).
- Review your Degree Progress Report. It is recommended to review this with your major department.
- If necessary, correct any discrepancies with your Degree Progress Report in consultation with your major department advisor.
- File an online Application for Graduation by the deadline listed in the Academic Calendar.
- Ensure correct address is on file with the Office of the Registrar.

For a complete graduation checklist and details refer to the Office of the Registrar website, [msudenver.edu/registrar](http://msudenver.edu/registrar). Select "Student" and "Graduation."

## Diplomas and Transcripts

Diplomas are mailed approximately six weeks after the semester ends. Students must update their mailing address if there has been a change.

Official transcripts with the posted degree will be available approximately four weeks after the semester ends. Students may request transcripts as early as the middle of their last semester and indicate that it is to be held until the degree is posted. Transcripts may be requested in person at the Office of the Registrar, SSB 160, by fax at 303-556-3999, or via the Office of the Registrar's website, [msudenver.edu/registrar/student](http://msudenver.edu/registrar/student) under transcripts. Diplomas and transcripts will NOT be issued if money is owed to MSU Denver. If you owe any money to MSU Denver, please contact the Office of the Bursar, SSB 150, 303-615-0070, to arrange payment.

## Commencement Ceremony

Commencement ceremonies are held at the end of the fall and spring semesters. Candidates are encouraged to attend one of the two ceremonies. The commencement program lists candidates, degrees, and degree honors, if any. Although no commencement ceremony is held in the summer, students may still graduate at this time. Summer graduates are asked to attend the fall commencement ceremony. Their names, degrees and honors, if any, will appear only in the fall commencement program. Check MSU Denver's website for complete, up-to-date information about the commencement ceremony, [msudenver.edu/commencement](http://msudenver.edu/commencement).

To qualify for graduation honor recognition at the commencement ceremony, a student must have the specified GPA and must have completed a minimum of 50 semester hours of academic credit at MSU Denver by the end of the term of graduation. UCD Pooled

classes and other transfer credits are not considered when determining honors. Recognition at the commencement ceremony does not guarantee final honors designation on the official record. Honors announced at the commencement ceremony will be based upon a preliminary calculation not including grades from the term of graduation.

Students who qualify for recognition at the ceremony will be sent a letter from the Dean's Office of the College or School in which their major is located. This letter authorizes students to receive honor cords at the time they rent their caps and gowns.

Candidates with an Individualized Degree Program major will be identified for honors purposes within the College or School most prominent in their major.

# Online Learning

At MSU Denver, we adapt to your educational needs based on your ever-changing life. Online learning is a cornerstone of our mission to serve you where you are, how you want to learn, and when you are available. Join our learning community of resourceful, committed, and passionate students who are actively engaged with the university, faculty, and each other.

## Delivery Formats Include In-Person, Hybrid, and Online

Degrees and programs are offered in in-person, online, and hybrid formats, and available formats are listed on each major program page. MSU Denver students have complete flexibility to choose the course formats they prefer, and can mix and match formats regardless of the program they are pursuing.

- In-person: all required courses are available on-campus.
- Hybrid: 50% or more of the required courses are available online.
- Online: all required courses are available online.

## Comprehensive Support for Online Students

MSU Denver Online has dedicated support staff for online students. Our Online Student Services Manager connects online students with virtual student services (so you don't have to come to campus), and resources for your distance learning success, health and well-being.

## Course Delivery Formats

- **On-Campus** requires only have face-to-face class sessions on campus. MSU Denver offers a weekday, weeknight, and weekend on-campus courses.
- **Hybrid** is a combination of face-to-face and online class sessions in the same course. This schedule is specific to your course and more information can be found on the Student Detail Schedule in the Student Hub after students register.
- **Fully online** means all required components of the courses are offered virtually and may include **synchronous and asynchronous options**.
  - **Asynchronous** include activities, readings, assignments, videos, and other tasks required in

your course that students complete on their own time while meeting the expected due dates and times.

- **Synchronous** includes sessions that occur with classmates and a professor at a scheduled time but is accessible virtually through a software like Microsoft Teams.

## Online Learning Expectations

Whether fully online or hybrid, online learning requires students to effectively manage their time, plan ahead, communicate openly and timely, present themselves professionally, and to fully understand the expectations of the course. Online and hybrid course delivery options require students to be active in Canvas multiple times a week (e.g., discussion boards, presentations, assignments, peer interactions, course material, etc.), to read all emails and announcements (as they are not reinforced in face to face class), and complete all required material in the weekly modules.

Though students don't have a physical class, students still need to schedule time to complete course assignments and learning objectives. Online does not mean less time or less rigorous. Students should schedule the equivalent time of a face-to-face class (approx. 3 hours) each week in order to learn the course material through participation in discussion and completion of the learning modules in addition to reading, homework, and assignment time required.

## Open Educational Resources (OER)

Open Educational Resources (OER) are teaching and learning materials in the public domain or licensed to give everyone free and ongoing permission to retain, reuse, revise, remix, and redistribute the materials. Open textbooks are a type of OER and a large selection of open textbooks can be found at <https://open.umn.edu/opentextbooks>. Many MSU Denver faculty are exploring using open textbooks and other OER in courses to enhance the student experience and decrease course material costs. Course with no materials cost (for textbooks, online homework systems, etc.) are starting to be marked with a no-cost for materials designation in the course schedule. Full implementation of this course marking system will be in Fall 2021.

# Registration and Records

All continuing students in good standing and all applicants accepted to MSU Denver are eligible to register each semester.

Students are responsible for ensuring that their address and phone number on file with the University are correct and up-to-date. Address changes may be made in-person with the Office of the Registrar, by fax to 303-556-3999, or through the Student Hub, [msudenver.edu/studenthub](http://msudenver.edu/studenthub).

Information on the registration procedure, registration dates, and student responsibilities and obligations related to registration is available at the Student Hub, [msudenver.edu/studenthub](http://msudenver.edu/studenthub).

For additional information regarding registration and records, click on a link to be taken to the entry below.

- [Changes in Registration](#)
- [College Opportunity Fund \(COF\)](#)
- [Emergency Withdrawal](#)
- [Falsified Transcripts and Diplomas](#)
- [Full-time and Half-time Status](#)
- [Legitimate Academic Interest to Attend a Course](#)
- [Military Leave for Students Active or Inactive Duty](#)
- [Official Transcripts \(Official Academic Record\)](#)
- [Preferred Name](#)
- [Priority Registration](#)
- [Selective Service Registration Certification](#)
- [Special Registration \(CU Denver Pooled and CCD Interinstitutional\)](#)
- [Transfer Credit Evaluation](#)
- [Waitlist](#)

## Changes in Registration

Enrolled students may adjust their schedules by dropping and/or adding classes. Students must add or drop classes before the drop deadline (census date). It is the student's responsibility to follow proper drop or withdrawal procedures in the event that he or she does not attend a class. Failure to attend class does not constitute an automatic drop or withdrawal. Students who do not officially drop their classes will be assessed full tuition and fees.

Drop, refund and withdrawal deadlines are located on the Student Detail Schedule via the Student Hub.

Students who reduce their course load after the drop deadline and before the withdrawal deadline will receive a "W" notation for each course from which they have withdrawn. Refer to the withdrawal notation policy in the university catalog under Academic Policies and Procedures.

**ALL STUDENTS ARE RESPONSIBLE FOR ALL REGISTRATION TRANSACTIONS.** Students are also responsible for following all drop and withdrawal deadlines.

## College Opportunity Fund (COF)

Every eligible Colorado resident who will be a student must apply for the College Opportunity Fund (COF) in order to authorize payment of the state's contribution toward tuition at any public college or university in the State of Colorado, including Metropolitan State University of Denver.

These funds, called "stipends," will be applied to a student's college account each semester and are available for up to 145 credit hours of college-level, undergraduate study. The actual value of the stipend will be determined by the Colorado Legislature each year. Students must apply online for the stipend at [CollegeInColorado.org](http://CollegeInColorado.org) (select College Opportunity Fund). Students must authorize the use of the stipend each semester during registration in the Student Hub, [msudenver.edu/studenthub](http://msudenver.edu/studenthub).

The COF application requires students to submit their legal name, date of birth, Social Security Number, and Driver's License Number only once in a student's lifetime. The application must be completed before the stipend can be credited to a student's tuition and fee bill.

Students who do not apply for and/or authorize COF will not be eligible for the stipend and will be responsible for paying the total in-state tuition - both the student's share and the state's share.

Eligibility: In-state, undergraduate students will be eligible for the stipend, up to 145 credit hours of college-level, undergraduate study, regardless of age, income or financial aid status. If a student goes over his or her 145-lifetime-credit hour cap, the student may apply for a one-time, one year waiver of up to 30 credits. All waiver requests must have an advisor's signature and must include a personal statement demonstrating substantial economic hardship, as well as an explanation as to why more than 145 credits is needed in order to obtain the degree.

For more information, visit the University's Q&A section on COF, [msudenver.edu/cof](http://msudenver.edu/cof).

## Emergency Withdrawal

Students who must withdraw during a semester due to unforeseen or extenuating circumstances, including state or national emergency, should see the Office of the Registrar. The Office of the Registrar will make the final determination for administrative withdrawal on a case-by-case basis according to the administrative withdrawal policy. Students who request an administrative withdrawal may also request a tuition refund by filing a Tuition and Fees Appeal through the Office of the Bursar.

Office of the Registrar, Student Success Building, Suite 160 (#3), 303-556-3991, [Regquery@msudenver.edu](mailto:Regquery@msudenver.edu).

Office of the Bursar, Student Success Building, Suite 150, 303-615-0070.

## Falsified Transcripts and Diplomas

Altering, modifying, tampering with, or in any way falsifying an official Metropolitan State University of Denver transcript or diploma

is a crime. The University has implemented multiple measures to detect such conduct. To protect the integrity and value of an MSU Denver degree, the Attorney General will vigorously prosecute, through the criminal justice system, those who commit these crimes.

In addition, students found responsible for falsifying an official MSU Denver transcript or diploma will face a University judicial hearing and appropriate sanctions may be imposed, including suspension, dismissal, and loss of credit, which could affect the student's permanent record.

## Definition of Full-time and Half-time Status

The following number of semester hours required for undergraduate students to meet full-time and half-time status for fall, spring, and summer semesters:

FALL, SPRING, and SUMMER	
Full-time	12 or more semester hours
Three-quarter-time	9-11 semester hours
Half-time	6-8 semester hours
Less than Half-time	5 hours or less

To complete a degree in four years or eight semesters, students may need to take at least 15 semester hours per semester. For financial aid purposes, 12 semester hours is the full-time standard for the summer semester. To be eligible for health insurance coverage, students must be enrolled in nine or more credit hours in the fall or spring semester.

## Legitimate Academic Interest to Attend a Course

To attend a class, students must have a legitimate academic interest (e.g., be officially registered, waitlisted, auditing a course, enrolled through CU Denver pooled program, etc.). Individuals may not attend a class if they do not have a legitimate academic interest. Officially registered means that students have been accepted for admission by the University, and that the Course Reference Number (CRN) for the class is entered on the student's registration record. The deadline to register for a full-semester class is the census date, specified on the Academic Calendar. There are pro-rated deadlines for all other courses outside of the full-term courses. Undergraduate students who qualify for the College Opportunity Fund (COF) and register after the census date will not be eligible to receive the COF stipend.

## Military Leave for Students Active or Inactive Duty

Members of the State or National Guard, Reserve, or active United States Military, who are called to active or inactive duty (e.g. drill, annual training) will not be academically penalized for that service. When a military student is notified of being called to duty, the

student must notify all instructors and Veteran and Military Student Services.

Students activated may have different options, depending on the time of semester the student is called to duty and length of duty. In consultation with the student's faculty member, options may include:

- Completion of any missed work without penalty to their grade provided that satisfactory academic progress is being made,
- Drop;
- Withdrawal;
- Administrative Withdrawal; or
- Incomplete.

The student is required to present proof of training schedule, official orders or letter from the service member's unit to Veteran and Military Student Services. Veteran and Military Student Services will then contact each instructor and obtain the requirements for course completion. The requirements will be sent to the student and kept on file.

Veteran and Military Student Services, Tivoli 215, 303-615-0440, veterans@msudenver.edu.

## Official Transcripts (Official Academic Record)

The official transcript is a certified copy of the student's permanent academic record. It contains the official signature of the Registrar and the official seal of the University. Students may order transcripts by logging in to the Student Hub, msudenver.edu/studenthub. Requests may be delayed, depending on end-of-term grading and the posting of degrees. Transcripts will only be issued upon written request, which must include:

- Student's full, legal name as recorded while attending MSU Denver;
- Student's identification number;
- Birth date;
- Last term of attendance;
- To whom and where the transcripts are to be sent;
- Number of copies desired; and
- Student signature authorizing the release of records.

Transcripts will be withheld due to indebtedness to the University or for other appropriate reasons. Students from other institutions taking MSU Denver courses under the state college system or interinstitutional registration programs must request transcripts from their home institution.

## Preferred Name

MSU Denver is aware that many of its students use a first name other than their legal name. As part of being a welcoming and inclusive campus, MSU Denver will implement changes to increase the use of the preferred first name. However, a student's legal first name will continue to be necessary in certain records and communications; therefore, both the legal first name and preferred name (if desired)

will be stored within primary information systems. To initiate the process to include a preferred first name, you must complete the Change of Information form with the Office of the Registrar: <https://msudenver.edu/registrar/studentforms/>

## Priority Registration

Priority registration is designed to enhance the University's ability to help students achieve graduation status. The priority registration system allows students who have earned a certain amount of credits to register prior to other students who are further from graduation. Only passing grades and transfer credit are included in this calculation.

Priority registration also accommodates students with special circumstances that impact their ability to access the classes they need to maintain satisfactory progress toward the completion of their degree.

Priority registration is structured as follows:

1. Graduate students, NCAA, students with disabilities requiring accommodations approved with the Access Center, honors students, and Veteran students who received VA benefits or Tuition Assistance the previous semester.
2. Seniors
3. Juniors
4. Sophomores
5. Freshmen
6. Non-degree-seeking students
7. Newly admitted students

## Selective Service Registration Certification

As of July 1, 1993, any male student who fails to register for the Selective Service will be ineligible for federal student aid, according to the Military Service Act (Public Law 97-252).

Colorado Revised Statute 23-5-118 (selective service registration prerequisite to enrollment) requires all males between the ages of 18 and 26 to certify that they have registered with Selective Service before enrolling in any state-supported institution in Colorado. Any male who has not registered by his 26<sup>th</sup> birthday will be ineligible to enroll at the University. A Selective Service registration hold will be placed on the student's account until the student registers with Selective Service at [sss.gov](http://sss.gov) and provides a Selective Service Certification Form to the Office of the Registrar.

## Special Registration

### Pooled Registration

MSU Denver and the University of Colorado Denver (CU Denver) have formed a common pool of courses available to students at each institution. Students must register for pooled courses through their home institution.

MSU Denver Students:

- Must comply with all MSU Denver policies, procedures and deadlines when registering for, withdrawing from or dropping CU Denver pooled courses;
- May not be placed on a wait list for any CU Denver pooled course; and
- Must comply with CU Denver course prerequisites. Prerequisite courses are provided at CU Denver.

CU Denver pooled course titles and grades will appear on the MSU Denver transcript and will count in the GPA and hours toward graduation; however, CU Denver pooled courses will not satisfy academic residence requirements for degrees from MSU Denver. This restriction applies to the residence requirements of the overall degree (30 semester hours minimum), the major (8 upper-division semester hours minimum), and the minor (3 upper-division semester hours minimum). This restriction does not apply to Physics (PHY) courses. Credit for CU Denver pooled courses will not count towards the 50 resident semester hours required for Honors.

### Interinstitutional Registration

Interinstitutional registration applies to MSU Denver students taking courses at the Community College of Denver (CCD) and to CCD students taking courses at MSU Denver. Interinstitutional application deadlines are published in the Academic Calendar. During any semester, a student may not be registered interinstitutionally for more than 50% of the total number of hours carried for that term.

#### For MSU Denver students:

MSU Denver students may register interinstitutionally for a maximum of 9 credits; however, students may not register for more interinstitutional credits than they are taking at MSU Denver.

MSU Denver students wishing to enroll at CCD must obtain the Interinstitutional Application and registration forms from the Office of the Registrar, Student Success Building, Suite 160 (#3), [msudenver.edu/registrar/forms](http://msudenver.edu/registrar/forms). Students should ensure that the coursework is transferable to MSU Denver by receiving approval from their academic department.

MSU Denver students are restricted from registering for:

- Certain Colorado Community College (CCC) Online classes at CCD
- Online or off-campus classes at CCD
- Remedial classes through the interinstitutional registration process

Interinstitutional courses will not satisfy academic residence requirements for a degree from MSU Denver. The total number of community college credits applicable to a degree from MSU Denver is 64, which includes interinstitutional and transfer credit. Only courses transferable to MSU Denver will apply toward a degree.

#### For CCD students:

Students from CCD are not eligible to register for online courses or off-campus courses offered at MSU Denver South, including correspondence and tele-courses.

CCD students may not place their names on waitlists for closed classes at MSU Denver.

CCD students are restricted from registering for CU Denver Pooled Courses.

Interinstitutional students enrolled at MSU Denver will be charged all extra fees such as additional class fees, etc.

## **Community College of Denver (CCD) - Basic Skills Courses**

The Community College of Denver offers college Basic Skills Classes available to MSU Denver students needing additional preparation in the area of mathematics.

CCD basic skills courses will not apply toward MSU Denver degree requirements or GPA.

MSU Denver students registering, withdrawing or dropping CCD basic skills courses are expected to comply with all MSU Denver policies and deadlines.

- Prior to registering for any preparatory CCD classes, students must consult with their MSU Denver academic advisor to determine appropriateness of the class(es).
- Students taking CCD courses are required to take the Accuplacer test and to place into the appropriate courses based on their test results.
- Classes will be posted on your MSU Denver academic record and will include semester hours and the grade/notation earned. CCD will also post the course, semester hours and grade earned on the CCD academic record.
- Tuition and fees for these classes will be paid to MSU Denver.

## **Transfer Credit Evaluation**

Transfer credits are accepted under the following guidelines:

- Credit must have been earned at an institution of higher education holding full regional accreditation unless there is a current Articulation Agreement or Memorandum of Understanding (MOU) between that institution and MSU Denver on file with the Office of Academic Affairs.
- Grades earned must be a "C-" or better. Courses with "D," "F" or similar grades are not transferable. Also, courses graded with C.E.U.s (Continuing Education Units) will not be accepted. A summary of transfer credit from each institution is indicated on the MSU Denver academic record. Neither transfer course grades nor previous grade point averages are indicated or affect the MSU Denver grade point average.
- Course content must be similar to that of MSU Denver courses.
- No preparatory, remedial, or developmental courses are applicable toward an MSU Denver degree.
- MSU Denver will accept all applicable credits earned within ten years of transfer. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.
- Once transfer credits are evaluated, the total number of these credits applicable to a degree will not be reduced unless the student repeats already-awarded transfer credit at MSU Denver or interrupts MSU Denver enrollment for three or more consecutive semesters and readmits to the

University under more restrictive transfer credit evaluation policies.

- If a student repeats a course, including transferred courses, the credit for only one of the course attempts counts towards degree requirements, with the exception of repeatable courses.
- In accordance with policies established by the Colorado Commission on Higher Education regarding students transferring between Colorado public institutions, MSU Denver has instituted procedures for resolving transfer credit disputes. Questions regarding these procedures may be directed to the Transfer Services at 303-556-3774.
- Students who have previously earned a baccalaureate degree from an accredited college or university have the following:
  - A transfer credit block of 90 credit hours and senior standing.
  - Satisfaction of MSU Denver's minimum General Studies requirements.\*
- Students who have earned a Degree with Designation accompanying an Associate of Arts or Associate of Science degree from a College public college of university have the following:
  - Guaranteed admission to MSU Denver.
  - Junior standing at MSU Denver, provided all courses included in the degree carry a grade of "C-" or better and, based on the course-by-course evaluation, otherwise meet minimum MSU Denver transfer credit standards.
  - Satisfaction of MSU Denver's minimum General Studies requirements.\*
  - No more than 60 remaining credits to meet the graduation requirements in the corresponding baccalaureate degree program outlined in the DWD agreement.
  - Students may need to complete MSU Denver lower-division requirements.
  - Students may need to complete courses labeled as general studies courses for their specific major, minor, certificate, or University requirement.
- Students who have earned an Associate of Arts or Associate of Science degree from a Colorado public college or university have the following:
  - Guaranteed admission to MSU Denver.
  - Junior standing at MSU Denver, provided all courses included in the degree carry a grade of "C-" or better and, based on the course-by-course evaluation, otherwise meet minimum MSU Denver transfer credit standards.
  - Satisfaction of MSU Denver's minimum General Studies requirements.\*
  - The Bachelor's degree completed in 60 hours unless additional courses are required for specialized accreditation or licensure as outlined in the Statewide Transfer articulation agreement
  - Students may need to complete MSU Denver lower-division requirements.

- Students may need to complete courses labeled at general studies courses for their specific major, minor, certificate, or university requirement.

- Students who have completed the Colorado Pathways core curriculum from a Colorado public college or university have the following:
  - Satisfaction of MSU Denver's minimum General Studies requirements.\*
  - Students may need to complete MSU Denver lower-division requirements.
  - Students may need to complete courses labeled as general studies courses for their specific major, minor, certificate, or University requirement.
- Students may need to meet additional university requirements, such as a Multicultural course, Senior Experience, etc.
- \*Metropolitan State University of Denver's General Studies include the following degree requirements:
  - Written Communication
  - Quantitative Literacy
  - Arts and Humanities
  - Oral Communication
  - Historical
  - Natural and Physical Sciences
  - Social and Behavioral Sciences
  - Global Diversity

## Waitlist

The course waitlist is typically an automated function. It may be available from the start of registration through the first week of class, but varies by department. When an opening occurs in a course, the first person on the waitlist will be sent an email authorizing the student to register for the open seat. The email will inform the student how many hours they have to register for the course. This means that:

1. The student needs to check msudenver.edu email account every day while on a waitlist.
2. The student needs to check with the department regarding specific waitlist policies.
3. When a notification is received, the student must register within the designated timeframe. For example, if the student has 24 hours, this means the student has 24 hours from the date and time of the automatically-generated email notice to register for the course. If the student does not register within the time allotted, the student will be automatically dropped from the waitlist.

Once the student is dropped from the waitlist, neither the Office of the Registrar nor the Department will be able to make exceptions for students who do not register for the class within the time period stated in the notification email.

# Student Code of Conduct

- View the [Policy for the Student Code of Conduct](#)

## Student Rights and Responsibilities

- [Policies and Procedures](#)
- [Definition of a Student](#)
- [Academic Integrity](#)
- [Academic Rights](#)
- [Academic Responsibilities](#)
- [Class Attendance](#)
- [Crime Awareness and Campus Safety](#)
- [Equal Opportunity and American Disabilities Act](#)
- [FERPA](#)
- [Final Examinations](#)
- [Freedom of Speech](#)
- [Graduation Rates](#)
- [Jury Duty](#)
- [Petitions for Degree Exception](#)
- [Respect for Rights of Others](#)
- [Student Code of Conduct](#)
- [Student Complaint Policy](#)

## Policies and Procedures

Generally, the policies and procedures contained in this University Catalog must be followed by students currently enrolled for the fall 2021 and the spring and summer 2022 semesters. The procedures and policies contained in this section are subject to change as the University deems necessary. If you have a concern, please check with the appropriate office.

## Definition of a Student

The term *student* includes persons admitted to or enrolled at the University, and those who may not be currently enrolled but who have a continuing relationship with the University. All students will adhere to the Student Code of Conduct as included in the Student Rights and Responsibilities section of the *Catalog*.

Student academic records are protected under the Family Education Rights and Privacy Act (FERPA). Academic record protection begins no later than the time a student has begun attending class at the University. Attendance includes, but is not limited to:

- a. Attendance in person or by paper correspondence, videoconference, satellite, Internet, or other electronic information and telecommunications technologies for students who are not physically present in the classroom; and
- b. The period during which a person is working under a work-study program.

More information regarding educational records can be found below and on the Office of the Registrar's website, [msudenver.edu/registrar](http://msudenver.edu/registrar).

## Petitions for Degree Exception

Students requesting Degree Exceptions should contact their academic department. Valid reasons for variances must accompany all petitions, and the petitions must be reviewed by the department chair and appropriate dean.

The following shall not be waived for any student for any reason:

- A minimum requirement of 120 semester hours for graduation with a Bachelor's degree.
- A minimum requirement of 40 semester hours of upper-division courses (3000- and 4000-level courses) for graduation with a Bachelor's degree.
- A minimum requirement of 30 semester hours for the major.
- A minimum requirement of 18 semester hours for the minor.
- A minimum requirement of 30 semester hours at MSU Denver prior to the term of graduation.
- A minimum required cumulative GPA of 2.00 in the major, the minor, or the program (as applicable and denoted in the Catalog).
- The following components of a degree: the major, the minor, General Studies, Multicultural graduation requirement, Senior Experience requirement, or emphasis (as applicable and denoted in the Catalog).
- Lower-division credit earned at another institution shall not be granted upper-division credit.
- The specified minimum credit hours required for a certificate program.

For all other situations not listed above, students should consult with academic departments regarding exception options.

## Academic Integrity

As students, faculty, staff and administrators of Metropolitan State University of Denver, it is our responsibility to uphold and maintain an academic environment that furthers scholarly inquiry, creative activity and the application of knowledge. We will not tolerate academic dishonesty. We will demonstrate honesty and integrity in all activities related to our learning and scholarship. We will not plagiarize, fabricate information or data, cheat on tests or exams, steal academic material, or submit work to more than one class without full disclosure.

## Academic Rights

Students have the right to:

- Be informed of course expectations and requirements.
- Be evaluated fairly on the basis of academic performance.
- Participate in free and open discussion, inquiry and expression, both in the classroom and in conference.
- Receive competent instruction and advisement.

- Expect protection against professors' improper disclosure of students' personal information, views, beliefs, and political associations when such information has become known as a result of professors' instructions, advisement, or counsel.
- Expect protection, through established procedures, against prejudicial or capricious evaluation.
- Assess the value of a course to make suggestions as to its direction and to evaluate both the instructor and the instruction they have received.
- Have input in University policy-making, which may include, but shall not be limited to, course scheduling distribution of night and day classes, calendar arrangements, library policy and development, grading systems, course development, and curriculum.
- Expect instructors to conduct themselves professionally in the classroom in accordance with University policies and directives.
- Expect instructors to maintain office hours as required by University policy.
- Expect reasonable academic assistance from the appropriate department.
- Be informed of academic standards expected of them in the classroom through a syllabus and/ or course outline. Academic standards shall include, but not be limited to, classroom civility, class attendance requirements, objectives to be achieved, and the grading criteria that will be applied to a particular course of study.

## Academic Responsibilities

Students have the responsibility to:

1. Inquire about course or degree requirements if they do not understand them or are in doubt about them.
2. Maintain the standards of academic performance established for individual courses and for programs of study.
3. Learn the content of any course of study.
4. Act in accordance with commonly accepted standards of academic conduct. If disruptive behavior occurs in a classroom, an instructor has authority to ask the student to leave the classroom for one class session and then report it to the Dean of Students Office. Should such disorderly or disruptive conduct persist, the instructor should report the matter to Auraria Campus Police, the Dean of Students Office, and the appropriate Department Chair and Dean's office.
5. Maintain academic ethics and academic honesty.
6. Pay the tuition and fees and be officially registered in order to attend a class.
7. Initiate an investigation by contacting the department chair if they believe their academic rights have been violated.

## Class Attendance

Attendance during the first week of class is required. It contributes greatly to teaching and learning. Some departments determine a

student's enrollment in a course based upon attendance during the first week of class. Consult the department for more information about the attendance policy for the class that you are attending. Students who drop classes are financially responsible for those classes in accordance with the withdrawal/refund policies stated on the Web class schedule available via the Student Hub.

Students are expected to attend all sessions of courses for which they are registered. Each instructor determines when a student's absences have reached a point at which they jeopardize success in a course. When absences become excessive, the student may receive a failing grade for the course. If students anticipate a prolonged absence, they should contact their instructors. If they find that they cannot communicate with the instructor, they should contact the chair of that department, who will inform the instructor of the reasons for the anticipated absence. Whenever an instructor determines that a student's absences are interfering with academic progress, the instructor may submit a letter to the department chair informing that office of the situation.

Students at MSU Denver who, because of their sincerely held religious beliefs, are unable to attend classes, take examinations, participate in graded activities or submit graded assignments on particular days shall, without penalty, be excused from such classes and be given a meaningful opportunity to make up such examinations and graded activities or assignments provided that proper notice and procedures are followed.

## Crime Awareness and Campus Security

In 1990, Congress enacted the Crime Awareness and Campus Security Act, which requires all post-secondary institutions participating in Title IV student financial aid programs to disclose campus crime statistics and security information. This information is available at [msudenver.edu/campussafetyandcrime](http://msudenver.edu/campussafetyandcrime).

## Equal Opportunity and Americans with Disabilities Act

Metropolitan State University of Denver is an equal opportunity employer; applications from minorities and women are particularly invited. Metropolitan State University of Denver does not discriminate on the basis of race, color, creed, national origin, sex, age, sexual orientation or disability in admissions or access to, or treatment or employment in, its educational programs or activities. Inquiries concerning the University grievance procedures may be directed to the designated MSU Denver officials. Inquiries concerning Title VI and Title IX may be referred to the MSU Denver Office of Equal Opportunity, Campus Box 63, P.O. Box 173362, Denver, CO 80217-3362, 303-615-0036. Inquiries concerning the Americans with Disabilities Act (ADA) or 504 may be referred to Amanda Berry, Benefits Manager, MSU Denver, Campus Box 67, P.O. Box 173362, Denver, CO 80217-3362, 303-605-5321; Mr. Steve Monaco, Student ADA Coordinator, 303-615-9999; Mr. Greg Sullivan, Director Access Center, MSU Denver, Campus Box 56, P.O. Box 173361, Denver, CO 80217-3361, 303-615-1204. Otherwise, all inquiries may be referred to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Denver, CO 80204, 303-844-3723.

# Family Educational Rights and Privacy Act

## Student Rights

Metropolitan State University of Denver maintains educational records for each student who has enrolled at the University. A copy of the University's policy on student educational records may be obtained from the Office of the Registrar, Student Success Building, Suite 160. Under the Family Educational Rights and Privacy Act of 1974 (FERPA), 20 USC 1232g, and the implementing regulations published at 34 CFR part 99, each eligible student has the right to:

1. Inspect and review his/her educational records;
2. Request the amendment of the student's education records to ensure that they are not inaccurate, misleading or otherwise in violation of the student's privacy or other rights;
3. Consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent (see Nondisclosure and Exceptions); and
4. File a complaint under 34 CFR 99.64, concerning alleged failures by the University to comply with the requirements of FERPA, with the Family Compliance Office, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington, D.C. 20202-4605.

## Procedure for Inspecting and Reviewing Educational Records

Students may inspect and review their education records upon a written request submitted to the Registrar, Student Success Building, Suite 160 (#3), or by mail to Campus Box 84, P.O. Box 173362, Denver, Colorado 80217-3362.

1. The request shall identify as precisely as possible the record or records the student wishes to inspect.
2. The record custodian or an appropriate staff person shall make the arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given within 45 days from the receipt of the request.
3. When a record contains information about more than one student, the student may inspect and review only the records that relate to that student.

## Procedure for Amending Educational Records

A student may make a written request to amend a record.

1. In the request, the student should identify the part of the record to be changed and specify why the student believes it is inaccurate, misleading, or in violation of the student's privacy or other rights.
2. Metropolitan State University of Denver shall comply with the request or notify the student that the University will not comply with the request and advise the student of the student's right to a hearing to challenge the information

believed to be inaccurate, misleading or in violation of the student's rights.

3. Upon written request, Metropolitan State University of Denver will arrange for a hearing, and notify the student, reasonably in advance, of the date, place, and time of the hearing.
4. The hearing will be conducted by a hearing officer who is a disinterested party, but who may be an official of the institution. The student shall be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend the student's education records. The student may be assisted by one or more individuals, including an attorney.
5. Metropolitan State University of Denver will prepare a written decision based solely on the evidence presented at the hearing. The decision will include a summary of the evidence presented and the reasons for the decision.
6. If Metropolitan State University of Denver decides that the challenged information is not inaccurate, misleading, or in violation of the student's right of privacy or other right, it will notify the student that the student has a right to place in the record a statement commenting on the challenged information and/or a statement setting forth reasons for disagreeing with the decision.
7. The statement will be maintained as part of the student's education records as long as the contested portion is maintained. If Metropolitan State University of Denver decides that the information is inaccurate, misleading, or in violation of the student's rights, it will amend the record and notify the student, in writing, that the record has been amended.

## Nondisclosure and Exceptions

Pursuant to FERPA, the University will not disclose a student's education records without the written consent of the student except to University officials with legitimate educational interests, to officials at other institutions in which the student seeks to enroll; in connection with providing financial aid to the student; to accrediting agencies in carrying out their functions; to authorized representatives in connection with an audit or evaluation of Federal- or State-supported education programs, or the enforcement of or compliance with Federal legal requirements that relate to those programs; in compliance with a judicial order or subpoena; to other outside providers who may be subject to a contractual obligation to maintain confidentiality of student information (e.g. Auraria Higher Education, National Student Clearinghouse, or legal and debt collection services); may release educational records to parents of dependent children in accordance with IRS code of 1986; and in connection with a health or safety emergency involving the student. However, the University may release directory information without the prior written consent of the student unless an enrolled student has notified the University's Office of the Registrar in writing that any or all types of directory information shall not be disclosed without the consent of the student. A request for nondisclosure will remain in effect until the student is no longer enrolled or cancels the request for nondisclosure.

A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff

position, including Auraria law enforcement personnel; or a person elected to the Board of Trustees; or a person employed by or under contract to the University to perform a special task, such as attorney, auditor or consultant; or a student or other person serving on an official University committee or assisting a school official in performing the official's professional duties and responsibilities. A legitimate educational interest is the need of a school official to review educational records to fulfill that official's professional duties and responsibilities.

Other than Directory Information, which may be released to the general public, the University will not release educational records without a student's written consent, signed, and dated by the student.

## Directory Information

Metropolitan State University of Denver has designated the following categories of personally identifiable information on students as directory information under section 438(a)(5)(B) of FERPA:

- Dates of attendance at the University
- Date of birth
- Degrees and awards received
- Enrollment status
- Last educational institution attended
- Major and minor fields of study
- Participation in officially recognized activities and sports
- Physical and email addresses
- Student classification
- Student Identification Number (only provided in certain circumstances with special approval)
- Student name
- Telephone number
- Weight and height of members of athletic teams

## Final Examinations

It is the general policy of MSU Denver to require final examinations of all students in all courses for which they are registered for credit, with the possible exception of seminar courses or special projects.

## Freedom of Speech

Students shall have the right to assemble, to select speakers and guests, and to discuss issues of their choice. An invitation to a speaker shall not imply endorsement of the speaker's views by either the student organization or the University.

Information about student views, beliefs, and political associations shall not be used to the detriment of students and their institutional standing.

The right of peaceful protest is granted within the University community. The University retains the right to assure the safety of individuals, the protection of property, and the continuity of the educational process.

The student press shall be free of censorship and shall provide editorial freedom. The editors and managers shall not be arbitrarily suspended because of student, faculty, administration, alumni, or community disapproval of editorial policy or content.

All student communications shall explicitly state on the editorial page or in broadcast that the opinions expressed are not necessarily those of the University and/or members of the University.

## Graduation Rates

MSU Denver's latest, six-year graduation rate for the 2014 cohort of first-time, full-time, degree-seeking students is 32%. MSU Denver has a six-year graduation rate of 52% for the 2014 cohort of full-time, transfer, degree-seeking students.

## Jury Duty

The University will not impede a student called to jury duty. If a student's jury duty conflicts with an MSU Denver class, lab or exam, faculty must cooperate with the student to reschedule the missed course obligations. Jury duty takes precedence over class attendance policies. The student has the responsibility to provide verification of attendance at jury duty to the faculty member.

## Respect for Rights of Others

The student assumes certain obligations of performance and behavior while attending MSU Denver. Based on this premise, reasonable policies, procedures and regulations have been developed to guarantee each student's opportunity to learn and to protect the fundamental rights of others. MSU Denver students neither gain nor lose any of the rights and responsibilities of other citizens by virtue of their student status.

As members of an academic community, students are expected to conduct themselves in a mature and responsible manner. Students should try at all times to promote a sense of cooperation and civility within the University and work to build an atmosphere that will be most conducive to the goals of higher education within the institution.

Students, while within University facilities or while participating in University sponsored activities (on-campus and/or off-campus), are expected to comply with University rules and regulations and with the regulations of off-campus sites.

## Student Code of Conduct

Students are required to follow the Code of Conduct available in this Catalog.

## Student Complaint Policy

For information on MSU Denver's student complaint policy, visit [msudenver.edu/deanofstudents/studentcomplaintsappeals](https://msudenver.edu/deanofstudents/studentcomplaintsappeals).

# Student Resources

MSU Denver offers a variety of resources to help students as they pursue their academic goals. Commonly accessed resources are included below as links to the services. Most services are available at no additional cost to the student. Students are encouraged to visit each resource listed to understand the benefits associated with each, and for details on how to access applicable services.

- [Academic Advising](#)
- [Access Center](#) - Disability support services
- [Auraria Immunizations](#) - Coordination of the State mandated immunization requirement and additional immunization services.
- [Brother 2 Brother](#) - A male mentoring program focused on academic and social support.
- [Campus Recreation](#) - A place to build community through healthy living outlets such as working out, group fitness classes, personal training, sports leagues, open recreation, outdoor pursuits and leadership programs.
- [CARE Team](#) - Provides assessment and case management support for students who are struggling or who may be displaying behaviors of concern.
- [Center for Advanced STEM Education](#) - Assists STEM majors through academic, financial, and peer mentor supports.
- [Center for Equity and Student Achievement \(CESA\)](#)
- [Classroom to Career Hub](#) - Provides relevant and impactful career development for the full student body.
- [College Assistance Migrant Program \(CAMP\)](#) - Designed to meet the academic, financial, and social needs of migrant/seasonal farmworkers and their children in pursuing higher education.
- [College Completion](#) - Helps all students find their best path to graduation, specifically those with 90 credits or above.
- [Counseling Center](#) - Individual and group therapy, crisis intervention and outreach to students.
- [COVID-19 Impacts and Responses](#) - Campus-related COVID updates and information
- [Dean of Students Office](#) - The hub for student support and referrals. Manages/addresses student conduct matters, offers student conflict resolution services, and supports students and the community with other needs.
- [EPIC Scholars Program](#) - Supports independent students coming from foster care, kinship care, adoption, or group homes.
- [Excel Programs](#) - Pre-collegiate and retention services for students in select Adams county and Aurora Public schools.
- [Exploratory Advising](#)
- [Fraternities and Sororities](#)
- [Gender Institute for Teaching and Advocacy \(GITA\)](#) - Holistically supports students affected by sexism and other intersecting oppressions through academics, advocacy, and services, which include academic advising, scholarship assistance, advocacy and problem solving, wellness and lactation rooms, a snack stop, and space for community organizing.
- [Health Center at Auraria](#) - Medical and Mental Health services for students
- [Healthy Pursuits](#) - Free Group Fit and Mind Body Fitness Classes
- [Honors Program](#)
- [Immigrant Services](#) - Refugee, immigrant students, ASSET, DACA, and English Language Learner support.
- [Immunization Program](#)
- [Individualized Degree Program](#) - Create your own major and minor
- [International Studies](#) - Study abroad opportunities, Exchange Programs, Fullbright Student Award, Erasmus Scholarships.
- [Internship Program](#) - Assists students in finding paid or unpaid internship opportunities and gaining academic credit for the experience.
- [LGBTQ Student Resource Center](#)
- [Met Media](#) - Student newspaper, radio, arts/literary magazine, and news broadcasts
- [Metro Meritus](#) - Lifelong learning for older adults
- [MSU Denver Student Insurance](#) - Manages the Student Health Insurance Plan
- [Orientation](#) - Provides in-person and online programming to support students in successfully starting and engaging in their college experience.
- [Pathways to Possible](#)
- [Peer Mentoring](#) - Individuated support and advocacy to all student throughout campus via direct outreach and co-curricular programming.
- [Phoenix Center at Auraria](#) - Interpersonal violence prevention, awareness, and support
- [Prior Learning Assessment](#) - Turn work and significant experience into college credit
- [Registrar's Office](#)
- [Roadrunner Food Pantry](#) - Provides food resources and community referrals for current MSU Denver students.
- [Roadways Into Developing English Skills \(RIDES\)](#) - Intensive writing support for multilingual students
- [Scholarship Support](#) - Fosters a community of scholars through leadership activities, proactive coaching, scholar events, and professional development.
- [Service Learning Program](#) - Classroom learning combined with community-based service. This is a great way to gain real world experience through classwork.
- [Student Care Center](#) - The hub for student support and referrals. Services include case management, student emergency fund, DREAMer emergency fund, roadrunner food pantry, Epic Scholars program, public benefit assistance and Single Stop.
- [Student Conflict Resolution Services](#) - Provides mediation, conflict coaching, group dynamics services, and the Dialogues Program.

- [Student Emergency Retention Fund](#) - An application process for students experiencing a financial crisis/emergency.
- [Student Government Assembly](#)
- [Student Health Insurance](#)
- [Student Organizations](#)
- [Student Travel and Professional Development Funding](#) - Grant funding available for students to travel to professional conferences and meetings.
- Summer Bridge/Melt - Provides students with support between freshman and sophomore year.
- [Supplemental Instruction](#) - A voluntary program that offers free, regularly scheduled study sessions for traditionally difficult course.
- [TRiO Student Support Services](#) - Support for first-generation, low-income students, and students with disabilities
- [Tutoring](#) - Provides individualized support to students in overcoming academic obstacles or barriers.
- [Testing Services](#) - Offers placement testing for the student body to assist advisers in determining the selection of appropriate courses.
- [Transfer Student Success](#) - Helps students create a foundation for success by aiding them in their transition to MSU Denver and connecting them to appropriate resources and departments.
- [Undergraduate Research Program](#) - Resource for students wanting to engage in research activities, presenting and grant opportunities
- [Veterans Education Benefits](#)
- [Veteran/Military Student Center](#)
- [Writing Center](#) - One on one writing tutoring and support for all students

# Tuition and Fees

## Registration Contract

Each time you Add/Drop classes you are electronically agreeing to the terms of the Metropolitan State University of Denver **Financial Responsibility and Promissory Note Agreement**. By doing so you acknowledge that you understand Metropolitan State University of Denver is advancing value to you in the form of educational services; that your right to Add/Drop classes is expressly conditioned upon your agreement to pay the University pursuant to the Agreement; that you have read, understand, and agree to pay the University pursuant to the Agreement.

As a student, you will pay all tuition, fees, fines, and other costs imposed by the University. If any of those charges remain unpaid, you agree to reimburse us the fees of any collection agency, which may be based on a percentage at a maximum of 40% of the debt, and all costs and expenses, including, but not limited to, reasonable attorneys' fees, collection agency fees, and court costs we incur in such collection efforts.

When you register for classes, space in those classes are reserved for you. Decisions about how many class sections to offer and other commitments of instructional resources are made based on the enrollment data provided after the registration process is complete. Other students may be closed out of a preferred section if the last available space is reserved for you.

In exchange for the University's commitment of resources on your behalf, you assume a responsibility to:

- Pay the fees assessed for those classes.
- Drop your courses via the online **Student Hub** portal prior to the start of the term if you are unable to attend, so that the class spaces may be released and made available to other students.

The University will not automatically cancel your registration for nonpayment or non-attendance. Therefore, if you decide not to attend Metropolitan State University of Denver, it is imperative that you drop any courses you are registered in.

If you do not request that your registration be cancelled through the **Student Hub**, your name will appear on the class rosters, and you will remain responsible for full tuition and fees until such time as you drop your courses. If you are still on the final rosters for the term, you will receive grades of "F" for the courses in which you were registered.

Please keep your part of the registration contract. If your plans change and you cannot attend, you must drop your courses prior to the refund deadline for the term in order to allow other students access to your class spaces. Drop dates and deadlines can be found on the **Student Hub** on your Student Detail Schedule. *Remember, non-attendance does not constitute dropping your courses; you will remain responsible for full tuition and fees.*

## Students' Financial Responsibility

## Student Account and Billing Statement

MSU Denver communicates all student account information via electronic services using online secured portals via the **Student Hub** and may send important notices via the student's MSU Denver e-mail account. Students are expected to review their account history available on the Student Hub prior to and after registering for classes and before the tuition payment deadlines each semester. A Student's failure to review their student account or receive any billing statement is not valid grounds for waiving service charges or removing registration, diploma or transcript holds. *You will not receive a paper billing statement.*

The IRS Tax Form 1098-T, which reports tuition and related expenses, will also be available electronically. Notification for the 1098-T tax document will be sent to Students' MSU Denver-issued email address on record. It is the student's responsibility to review their Student Hub account status and their student e-mail account at least weekly.

### It is important for you to understand your financial responsibilities when registering for classes at MSU Denver.

- Full payment of tuition and fees is due by that semester's payment deadline. Any unpaid balance as of payment deadline will incur a 4% service charge. Please see the **Current Term Policies** for specific Semester information.
- You are responsible for verifying the balance of tuition and fees. You may access your account at **msudenver.edu/studenthub**. Log into the **Student Hub** portal and select My Services/Registration. E-mail is the official means of communication at MSU Denver. **DO NOT WAIT FOR A BILL!**
- Financial aid students that have not received an award by payment deadline, must pay in full or their unpaid balance will incur a 4% service charge.
- Changes in registration that result in additional tuition and fees not paid by payment deadline, may incur a 4% service charge.
- **IT IS THE STUDENT'S RESPONSIBILITY TO DROP THEIR CLASSES BY THE PUBLISHED DROP DEADLINES IF THEY DO NOT PLAN TO ATTEND.** Failure to do so will result in charges incurred on the student's account.
- Your courses will not be dropped for non-payment or non-attendance.
- Specific refund dates for classes, can be found on your Student Detail Schedule on the **Student Hub**.

### If you do not fulfill your financial obligations by published deadlines:

- A 4% service charge will be assessed on any unpaid balance as of payment deadline.
- A 1.5% service charge will be assessed to any unpaid balance on the **7th working day of each month thereafter.**

- Accounts not paid in full by the last day to drop classes are considered past due. A balance due hold will be placed on accounts with balances greater than \$200.00.
- Balance due holds prevent registration for classes in both the current and future semesters.
- Accounts with past due balances at the conclusion of the semester are considered delinquent.
- Delinquent accounts will be turned over to a collections agency in accordance with Colorado law; collection costs will be added to your account balance. The collection agency may report delinquent accounts to the national credit bureau.
- Students whose accounts have been sent to a collection agency must pay balance in full before registration for any subsequent semester classes will be allowed.
- Students with balance due holds may be prevented from applying for graduation.
- Transcripts will not be issued for students with balance due holds.
- Diplomas will not be released to students with balance due holds.
- A pre-payment hold will be placed on all accounts with bankruptcy discharged adjustments. Students are required to pre-pay their first semester's registration after having a balance discharged through bankruptcy.
- Students unable to meet their financial obligations should immediately contact the Office of Cashiering to discuss payment options.

## Third-party Sponsorships

MSU Denver plays a major role in educating Denver's workforce. As a business-friendly university, MSU Denver offers a convenient way for businesses and public sector organizations to subsidize the cost of attendance.

To participate in this program:

1. Print the **Employer Sponsor Authorization**
2. Have a human resource officer or other authorized representative from your company complete the form.
3. Mail form to:

Metropolitan State University of Denver  
Office of the Bursar  
Campus Box 92  
P.O. Box 173362  
Denver, CO 80217-3362

Third-party Sponsor Authorization Forms must be turned into the Office of the Bursar by **Payment Deadline**. Sponsored students are responsible for all service charges incurred due to late submission of required documents. Sponsored students are also responsible for all charges not covered by their sponsorship as well as any payments refused, or deemed non-collectable, by their sponsor. Third-party sponsors will not be billed for tuition and fees until after the last date to add/drop classes. If you have financial aid, your award will be applied to your tuition and fees first and refunds from third-party sponsors will not be issued until after payment has been received.

## Tuition and Fee Appeal Process

The **Tuition and Fee Appeal** process is available to students who may warrant an exception to institutional Drop/Refund policies due to extenuating circumstances such as severe medical illness, an employment situation beyond their control or the death of an immediate family member during the Semester. The University will not accept appeals for charges incurred more than 1 year prior to the application for appeal. Additional information can be obtained at the Office of the Bursar (SSB 150, 303-615-0070) or by visiting the Bursar's website.

Tuition and Fees Appeal Forms can be hand-delivered or mailed to:

Metropolitan State University of Denver  
Office of the Bursar  
Campus Box 92  
P.O. Box 173362  
Denver, CO 80217-3362

Tuition and Fees Appeal Forms can also be faxed to: (720) 778-5809

Or emailed to: [Bursar@msudenver.edu](mailto:Bursar@msudenver.edu)

**Note: All policies are subject to change. Exceptions may be made solely at the discretion of the Office of the Bursar.**

# Undergraduate Studies

Undergraduate Studies brings together academic offices, centers, and programs that lie outside of the colleges at MSU Denver. Each of the offices, centers, and programs bring important enhancements to students' undergraduate experiences. Students can pursue experiential learning through the Applied Learning Center, the Office of International Studies, the Center for Urban Education, and the Center for Innovation, develop their own programs of study in the Center for Individualized Learning, and rise to meet the challenges of the Honors Program. All of these programs create authentic learning environments that prepare students for careers or post-graduate studies.

Undergraduate Studies also advances MSU Denver's community engagement mission. This work includes spearheading initiatives under the American Democracy Project and fostering partnerships for service learning and community-based research that prepare our students to become informed and engaged citizens of our globally connected society.

## Centers

- [Center for Individualized Learning](#)
- [Center for Urban Education](#)
- [Honors Program Office](#)
- [Office of International Studies](#)

## Honors Program

The Honors Program is rooted in the MSU Denver mission to **provide a high-quality, accessible, enriching education to a diverse student population in an atmosphere of mutual respect.** Students and faculty who participate in the Honors Program commit to pursue the University mission **to engage the community at large in scholarly inquiry, creative activity and the application of knowledge.**

The MSU Denver Honors Program offers a transformative intellectual challenge within the context of a supportive community. This program fosters interdisciplinary inquiry and experiential learning and provides guidance for in-depth research and creative projects. The Honors Program encourages students to become good stewards of their knowledge by inviting them to actively participate in academic leadership and service opportunities. Honors students also learn to integrate a variety of disciplines in their approach to a given project, demonstrate civic and intercultural knowledge and engagement, and reflect critically upon their values and the learning process. Students who enroll in Honors should expect a challenge that stimulates curiosity and research while broadening perspectives in unexpected ways.

### Curriculum Basics

The Honors Program curriculum requires **21 units of Honors Program approved courses and activities.** Each student is able to design his or her own path through the honors curriculum by completing the honors core courses and combining a selection of

academic course options and co-curricular options. Students must earn a B-or better for courses to count for Honors credit.

## Honors Core Courses (11-13 credit hours):

Core courses taken by all honors students include two interdisciplinary Honors Colloquia as well as The Honors Thesis which is an independent research and/or creative project normally completed during the senior year. The Honors Thesis can also be completed in conjunction with degree program requirements. Honors Core Courses include:

- ENG 3525 - Scholarly Writing **Credits: 3**
- or
- COMM 3020 - Advanced Public Speaking **Credits: 3**
  
- HON 3910 - Honors Colloquium **Credits: 3** (two 3 hrs. courses)
- HON 4948 - Honors Thesis Seminar **Credits: 1**
  
- HON 4950 - Senior Honors Thesis **Credits: 3**
- or
- HON 4951 - Paired Senior Honors Thesis **Credits: 1** (must be paired with an upper division research, capstone or Senior Experience course)

## Honors General Studies Options

In addition to the core courses, honors students may select general studies and/or upper division course options to complete the academic course requirements. Many of these options can also fulfill degree program and university requirements. Service learning courses, internships and study abroad programs can also count as Honors Program credit.

- ENG 1021 - Honors Research and Argument Writing **Credits: 3** (Written Communication)
- HON 2750 - History of the Self **Credits: 3** (Arts and Humanities)
- HON 2770 - Dynamics of Change **Credits: 3** (Social and Behavioral Sciences II)
- HON 2800 - Scientific Revolutions **Credits: 3** (Natural and Physical Sciences)
- HON 2850 - Technology and Society **Credits: 3** (Social and Behavioral Sciences I)
- HON 2950 - Introduction to Critical Theory **Credits: 3** (Arts and Humanities)

## Honors Co-Curricular Options:

Students can also acquire hours towards the completion of the Honors Program by participating in a variety of exciting co-curricular options including:

- Serve as an officer in the Honors Student Council

- Present a project at an undergraduate research conference
- Participate in the annual Rocky Mountain Honors Conference
- Become a tutor, peer mentor, supplemental instruction leader, new student orientation leader, peer ambassador, or a research or teaching assistant to one of your professors. Work for Met Report or in the Writing Center (Most of these options are paid positions).

## Eligibility and Application Requirements

The Honors Program is open to new, continuing, and transfer students in all majors. The current GPA requirement is 3.3 and above, and students must maintain a 3.3 GPA to remain in good standing. Admission to the program is based on an application that includes high school or college GPA or GED, standardized test scores, a writing sample, and two references. Applications are evaluated by the Honors Director and Associate Directors.

## Center for Individualized Learning

The **Center for Individualized Learning** contributes to pre-eminence at MSU Denver by offering students and faculty the opportunity to engage in individualized, interdisciplinary and innovative educational initiatives.

Students use the **Individualized Degree Program** to craft their own majors and minors to address specific community needs and to meet their own unique educational goals.

**Credit for Prior Learning** offers students the chance to integrate learning gained in the workplace with new learning, and when appropriate, to earn credit for that learning.

Faculty reach across disciplines and Schools, collaborating with the Center, to develop, "incubate" and test new academic programs that meet emerging community needs such as Fire and Emergency Services Administration, Game Development and Design, and Aerospace Systems Engineering Technology. The IDP concentration provides a curricular vehicle for new interdisciplinary majors and minors that cannot be accommodated in existing academic departments.

**Metro Meritus** invites the growing number of older adults in the community to engage in lifelong learning, creating an intergenerational learning environment for all students.

### Programs

- [Individualized Degree Program](#)

## Individualized Degree Program

As a large, urban institution of higher education, Metropolitan State University of Denver is committed to responding to the specific educational goals of a diverse student population. The Individualized

Degree Program enables MSU Denver to meet that commitment in three ways:

- It offers students the opportunity to collaborate with faculty to design an individualized major, extended major, or minor to meet their own specific educational goals when other majors or minors listed in the catalog do not.
- The IDP serves as an incubator for faculty to develop new academic programs to meet emerging needs in the community and workplace. The IDP-as-incubator provides faculty with the opportunity to track demand and to experiment with the relevant curriculum prior to submitting the new program for review through the established curriculum approval process.
- A specific IDP concentration may be offered when a need exists for an interdisciplinary major or minor that does not fall within the purview of existing academic departments. An interdisciplinary core (not to exceed 50% of the minimum credit hours required) provides the foundation upon which the student and faculty mentor build an IDP program to meet the student's educational goals.

Each student works with an advisor in the Center for Individualized Learning and with a faculty mentor to develop a proposal for his or her degree program. A practicing professional in the student's field of study may also be invited to serve as a community consultant to assist the student and the faculty mentor in the development of the program of study. Because careful and thoughtful planning is essential to designing a coherent and congruent program of study, students are encouraged to begin their proposals early in their enrollment at MSU Denver. IDP proposals must be submitted no later than the semester prior to the semester the student intends to graduate.

Either a bachelor of arts or a bachelor of science degree in Individualized Studies may be sought.

Interested students should contact the Center for Individualized Learning, 303-615-0525, for assistance and for complete information regarding the policies and procedures for the development and approval of an Individualized Studies major or minor.

Each Individualized Studies major or minor is approved by the faculty mentor, Center advisor, department chair of the academic department from which the majority of credit is drawn, the appropriate dean, and the director of the Center for Individualized Learning.

## Basic Rules of the Individualized Degree Program

- All requirements that apply to any bachelor's degree apply to Individualized Studies.
- A grade of "C-" or above must be earned in each course included in the student's major or minor, and students must have a GPA of 2.5 before an Individualized Studies program may be approved.
- On the student's diploma, the title of the IDP will be "Individualized Degree Program" followed by the approved title. Titles of minors do not appear on a diploma, but both major and minor titles will appear on the final official transcript.

- No more than 29 hours of credit from the College of Business may be included in the student's degree plan. In some cases this limit may be exceeded with the approval of the appropriate department chair and dean of the College of Business.
- Each Individualized Studies major or minor must include courses that have not yet been completed at the time the proposal is approved. See each IDP option below for the specific number of credits that must be completed after the proposal is approved by the department chair.

## Individualized Degree Program Options

Students may submit proposals for:

- An Individualized Studies standard MAJOR, which requires a minimum of 40 credit hours, including 21 hours of upper-division credit. Fifteen (15) credit hours must be completed after the proposal is approved by the department chair. A minor chosen from the Catalog is required.
- An Individualized Studies MINOR, which requires a minimum of 20 credit hours, including 6 hours of upper-division credit. Six (6) credit hours must be completed after the proposal is approved by the department chair. A major chosen from the Catalog is required.
- An Individualized Studies EXTENDED MAJOR may be proposed when the student's field of study requires more in-depth study or courses from multiple disciplines that cannot be accommodated in an IDP major. An extended major requires a minimum of 60 credit hours, including 30 hours of upper-division credit. Twenty-one (21) credit hours must be completed after the proposal is approved by the department chair. No minor is required.

## International Studies Concentration in IDP

Students wishing to pursue a major in international studies may do so by choosing the Individualized Degree Program (IDP) International Studies Concentration. This concentration requires core courses in the field of international studies and provides the flexibility for each student to select courses from across the University to develop a coherent academic program that meets the student's own specific educational goals within the broader area of International Studies.

Through the International Studies Concentration students gain an understanding of international and intercultural relations and dynamics, and gain the skills and knowledge necessary for their specific chosen careers as those careers exist within an international context. The program also provides preparation for a graduate program in international studies, and students may include prerequisites for other graduate programs of their choice.

Students may choose to develop a proposal for an IDP major or an IDP extended major. Each is developed in consultation with a faculty mentor and the Center for Individualized Learning and must be approved by the faculty mentor, appropriate department chair, appropriate dean, Center advisor and the Center director. Students in this program follow the basic requirements and process for all IDP

majors. The process for developing the IDP proposal and selecting the remaining courses is available at [msudenver.edu/cil](http://msudenver.edu/cil).

A minimum of one year of study of a modern language other than English is required and students are strongly encouraged to complete at least two years of study in the same language. Students who are already proficient in a language other than English as demonstrated by successful completion of an approved proficiency examination will be exempt from the requirement. Students are advised to research the possible entry language requirements of any graduate programs in which they might be interested and plan their programs accordingly.

An appropriate study abroad or a local or regional experience with an international focus is required as a part of the individual student's proposal.

## Prerequisites

These courses can be used to satisfy General Studies requirements. As for all IDPs, courses with the same prefix as the department from which the majority of credit is drawn for the major (or cross listed with that discipline) may not be included in the General Studies categories of Arts and Humanities, Historical, Natural and Physical Sciences, Social and Behavioral Sciences I, or Social and Behavioral Sciences II.

- ECO 2010 - Principles of Macroeconomics **Credits: 3**  
or
- ECO 1040 - A Citizen's Guide to Economics **Credits: 3**
- PSC 1020 - Comparative Politics **Credits: 3**

## International Studies Concentration Core

- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**  
or
- ANT 3300 - Exploring World Cultures: Variable Topics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**
- PSC 3340 - International Political Economy **Credits: 3**  
or
- ECO 3550 - Global Economics and International Trade **Credits: 3**

Total for Core: 18

## Additional Information

The senior experience may be selected from approved senior experiences listed in the *College Catalog Addendum* online. If no approved senior experience is appropriate for the student's program, a senior level course, internship or independent study that meets the criteria for senior experiences may be chosen with approval of the faculty mentor, chair, Center director and dean. Approval of a senior experience is not a separate process but is considered in the review and approval of the student's major proposal.

Some courses in the core may be applied to General Studies requirements. In that case, students will choose other courses in collaboration with their advisors so that the total number of credit hours in the major reflect the requirements for an IDP major or IDP extended major as listed below.

An IDP major requires a minimum of 40 credit hours (including the core), 21 of which must be upper division. Fifteen hours must be left to complete when the proposal is approved. A minor from the Catalog which will complement the student's proposed major is required. Minors from the College of Letters, Arts, and Sciences; the College of Business, or the College of Health and Applied Sciences are all appropriate, depending on the individual student's interests and future plans.

An IDP extended major requires a minimum of 60 credit hours (including the core), 27 of which must be upper division. Twenty-one hours must be left to complete when the proposal is approved. A minor is not required for the extended major, but students will choose other related coursework appropriate to their specific goals to meet the requirements for the IDP extended major.

## Center for Urban Education

The Center for Urban Education (CUE) supports and promotes the most effective teachers for high-need, urban schools. CUE partners with and provides **supplemental** services to MSU Denver students who are preparing to teach through the Teacher Education Departments and the School of Letters, Arts, and Sciences.

CUE facilitates pre-service teacher placements in urban schools, provides paid and volunteer tutoring and service opportunities in schools to help pre-service teachers and other university students build their professional resumes, develops and hosts urban education seminars and workshops for MSU Denver students, and convenes an annual, national, urban education summit aimed at building a national network of educators committed to addressing the educational needs of children in high-need, urban schools. CUE currently partners with Denver Public Schools.

For more information, visit the Center for Urban Education website at <https://msudenver.edu/centerforurbaneducation/>.

## Office of International Studies

The Office of International Studies seeks to promote international and intercultural awareness by providing resources to students, faculty, and staff to engage in international issues and programs. As such, the office provides information about a variety of study abroad programs for students.

Many students cite their study abroad experience as one of the best experiences of their undergraduate career. Students who study abroad say that this experience is one of the most challenging and rewarding experiences of their lives. Lastly, many educators and employers recognize that an international experience is extremely valuable in an increasingly global marketplace.

For more information on the Office of International Studies, visit [msudenver.edu/internationalstudies](https://msudenver.edu/internationalstudies).

## Undergraduate Research Program

Research experiences build valuable problem solving and critical thinking skills. Students who engage in faculty-led research enhance their engagement with their chosen profession and increase chances for employment or admission into graduate school. Research is no longer reserved for faculty or graduate students; increasingly, undergraduates are also engaging in research.

The Undergraduate Research Program at MSU Denver promotes, supports, and celebrates faculty and student engagement in undergraduate research activities. The Undergraduate Research Program sponsors an annual conference for students to present their research or scholarly activity. Mini-grants are also available to help students cover the cost of research.

For more information on the Undergraduate Research Program, visit: [msudenver.edu/appliedlearningcenter/undergraduateresearchprogram](https://msudenver.edu/appliedlearningcenter/undergraduateresearchprogram)

# C2 Hub

## Internship Program

The Classroom to Career (C2) Hub hosts a myriad of resources to support students' career aspirations. Within the C2 Hub, students can seek and land experiential learning opportunities including internships to integrate academic training with hands-on experience. Students will hone and develop practical skills as they build a professional network and understanding of an organization or industry.

- An internship will provide a variety of benefits including:
- Interns gain valuable job experience related to their major
- Students with internships enhance their marketability with employers
- Students with internships can better relate their coursework to a professional setting
- Internships help students make informed career decisions
- Internship supervisors can provide students with recommendations for graduate school or future jobs
- Paid internships help student earn money to help defray college expenses
- Interns can sometimes receive academic credit toward their degree

The Internship Program offers services to students seeking an internship placement. The Classroom to Career Hub staff will support students as they seek internship experiences, refine and tailor their resumes and cover letters, and will support interviewing strategies and techniques. Career Link serves as a comprehensive database of local internship positions for most majors on campus. Internship positions can be in large corporations, small businesses, government offices, and nonprofit agencies.

While internships can be paid or unpaid and can typically be done for academic credit, policies and eligibility for credit vary by department.

For more information, call or visit the Classroom to Career Hub at 303-615-1333, Administration Building Ste. 270, or email [C2Hub@msudenver.edu](mailto:C2Hub@msudenver.edu)

## Service Learning Program

Service learning is a form of experiential learning in which students combine classroom experience with community-based service. Service activities provide a forum for students to meet an identified community need while also gaining understanding and experience related to the course content. This method allows students to "learn by doing." The Service Learning Program at MSU Denver also provides mentoring and funds to support faculty who want to integrate this methodology into their courses.

For more information on the Service Learning Program, visit <https://www.msudenver.edu/service-learning/>

## Service Learning Courses

While many classes at MSU Denver incorporate service learning activities, specific sections in some fields have been designated as service learning classes. To see a list of current sections for each term, go to the class schedule for the term and look for chart that allows to you search by specific class type or location (<https://www.msudenver.edu/catalog/#d.en.24724>) Service Learning has a link in this section. Service Learning sections also have the initials "SL" at the end of the class name.

Some sections of the below courses may be taught as Service Learning.

- ACC 3110 - Volunteer Income Tax Assistance (VITA) **Credits: 3**
- CDES 3101 - Community-Based Design **Credits: 3**
- CDES 4650 - Studio M **Credits: 3**
- COMM 4450 - Social Movement Rhetoric **Credits: 3**
- CPD 1300 - Transformations: Student Success **Credits: 3**
- DANC 3410 - Skills and Methods of Teaching Dance Technique **Credits: 3**
- DANC 3920 - Dance Entrepreneurship **Credits: 3**
- DANC 4920 - Community-Based Dance and Social Change **Credits: 3**
- EDS 1001 - Educational (In)Equality in the 21st Century **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDU 3111 - Education in Diverse Communities **Credits: 3**
- FER 3000 - Applications of Fire Research **Credits: 3**
- FER 3140 - Fire and Emergency Services Administration **Credits: 3**
- FER 3200 - Fire Prevention, Organization, and Management **Credits: 3**
- FER 3300 - Understanding International Terrorism **Credits: 3**
- FER 3330 - Introduction to Homeland Security **Credits: 3**
- FER 3430 - Personnel Development for Fire and Emergency Services **Credits: 3**
- FER 3460 - Political and Legal Foundations for Fire Protection **Credits: 3**
- FER 3800 - Fire Service Ethics **Credits: 3**
- FER 3911 - Cultural Competence for First Responders **Credits: 3**
- FER 4160 - EMI National Response and Recovery Frameworks **Credits: 3**
- FER 4220 - Fire Dynamics **Credits: 3**
- FER 4260 - Fire Investigation and Analysis **Credits: 3**
- FER 4310 - Fire Protection Structures and Systems **Credits: 3**
- FER 4420 - Fire-Related Human Behavior **Credits: 3**
- FER 4510 - Managerial Issues in Hazardous Materials **Credits: 3**
- FER 4610 - Disaster Planning and Control **Credits: 3**

- FRE 4540 - Literature, Culture, and Translation **Credits: 3**
- GEG 4720 - Planning for Climate Change **Credits: 3**
- GWS 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits: 3**
- HCM 4161 - Disaster Planning and Control **Credits: 3**
- HIS 3782 - History of Human Rights **Credits: 3**
- HLDR 3800 - Servant Leadership in Hospitality **Credits: 3**
- HON 2770 - Dynamics of Change **Credits: 3**
- HON 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits: 3**
- HPS 3010 - Exploring School Health Education **Credits: 2**
- HSP 2010 - Introduction to High-Impact Nonprofit Organizations **Credits: 3**
- HSP 2760 - Social Media for Social Change **Credits: 3**
- HSP 2780 - Building A Sustainable Nonprofit **Credits: 3**
- HSP 3210 - Organizing and Advocacy for Social Change **Credits: 3**
- HSP 3510 - The People of Nonprofits: Staff, Board, Volunteers, Clients and You **Credits: 3**
- HSP 3810 - Fundraising Strategies for Nonprofit Organizations **Credits: 3**
- HSP 4030 - Grantwriting for Social Change **Credits: 3**
- HSP 4450 - Nonprofit Financial Management and Financing **Credits: 3**
- ITP 4700 - Community Health Education and Lifestyle Medicine **Credits: 3**
- JMP 4740 - Public Relations in Crises **Credits: 3**
- JMP 4750 - Public Relations Laboratory **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 4110 - Brand Management **Credits: 3**
- MTR 2050 - Community Climate Initiatives **Credits: 2**
- NUT 4210 - Community Nutrition **Credits: 3**
- NUT 4720 - Nutrition Capstone **Credits: 3**
- PSC 3350 - Global Issues Forum: Variable Topics **Credits: 3**
- PSY 3170 - Social Justice: Self and Citizenship: A Service Learning Course **Credits: 3**
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits: 3**
- SOC 1010 - People, Power, and Progress **Credits: 3**
- SPA 3110 - Advanced Conversation **Credits: 3**
- SPA 4025 - Introduction to Spanish Translation II **Credits: 3**
- SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**

# College of Business

The College of Business offers students a variety of educational opportunities that either lead to a bachelor's degree or provide opportunities for non-degree-seeking students to gain additional undergraduate education through our extensive course offerings and certificate programs.

The College provides convenient access to instruction through traditional classroom sessions at the main Auraria campus and online, during the day, evenings, and weekends. The College consists of 70 full-time faculty, more than 50 part-time faculty, and more than eight full-time staff. Over 3000 students major in business and economics. Students can take advantage of on-the-job training through internship placements, internships, and independent study course work.

Students may declare a major in the College of Business during the admission process, or at any time thereafter by contacting a department faculty advisor and completing the "Major Declaration Form." Students are encouraged to declare as early as possible to ensure accurate advising on degree program requirements.

## Mission

The MSU Denver College of Business engages a diverse student population with an inclusive educational experience to become successful business professionals.

## Engage:

We engage students through teaching methods that are centered on individualized attention through small classes, interactive and shared instructional experiences that includes opportunities to connect with the business community while leveraging the use of relevant technology.

## Inclusive:

We provide an enriching student learning experience for students from all backgrounds in ways that are appropriate to meet their educational needs. Our students have access to an affordable education through multiple delivery options. Our educational experiences focus on providing a quality curriculum that prepares students for the rapidly changing global business environment. Students are instructed by a diverse faculty who stay current in their disciplines through scholarly activities and professional experiences.

## Business Professionals:

Through our undergraduate and graduate programs, students develop knowledge, skills and abilities to become successful professionals who provide business solutions utilizing technological, ethical and global frameworks.

The various educational opportunities available through the College of Business are listed below. Students interested in the MBA, Graduate Certificate in Business Analytics, and MPAcc programs should refer to the Graduate Catalog for details. Course descriptions and prerequisites can be found by clicking here.

If you have any questions about the offerings, academic policies and practices, or admission requirements, contact the Dean of the College of Business or the chair of the appropriate department.

## Bachelor of Science Degree Programs

Students may earn a Bachelor of Science degree in Accounting, Banking, Business Administration, Business Intelligence, Computer Information Systems, Finance, Human Resource Management, International Business, Management, or Marketing. The degree requires completion of coursework in general studies, the core business disciplines and requirements, a major, and electives. A minor is not required.

- [Accounting](#)
- [Banking](#)
- [Business Administration](#)
- [Business Intelligence](#)
- [Computer Information Systems](#)
- [Finance](#) (General Finance, Financial Services)
- [Human Resource Management](#)
- [International Business](#)
- [Management](#)
- [Marketing](#)

## Bachelor of Arts Degree Program

- [Economics](#)
- [Entrepreneurship](#)
- [Global Business Studies](#)
- [Professional Selling](#)

## Business Minor

The Business Minor provides students a strong foundation in business fields including Accounting, Computer Information, Systems, Economics, Finance, Management, and Marketing. With the exception of Economics, this minor is for non-business majors.

- [Business Minor](#)

## International Business Concentration and Minor

An International Business Concentration is available to students with Business Majors except Economics, International Business, and Global Business Studies.

An International Business Minor is available to students with non-Business or Business Majors except Global Business Studies and International Business.

- International Business Concentration
- International Business Minor

## College of Business Prerequisite and Attendance Policy

All students are expected to know and fulfill all current prerequisite requirements. The College of Business reserves the right to disenroll students who do not meet current prerequisite requirements or who fail to meet expected course attendance policies. In addition to meeting specific course prerequisites, the following general requirements also apply:

Prior to attending an Upper-Division Business Core classes offered in the College of Business Bachelor of Science programs, all students must have:

- completed all General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy;
- completed at least 60 credit hours overall (junior standing);
- declared a major in any discipline or be of non-degree seeking status.

## Business Program Residency Requirements

To earn a Bachelor of Science degree in Business, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, CIS, ECO, FIN, MGT, MKT, and REL and a course number of at least 2000.

## Business Degree Program Planning

Some important things to remember as you plan your business studies:

- All degree-seeking students must meet the University's requirements for all bachelor degrees outlined in the general information section of this Catalog.
- During the first 60 credit hours, business majors should complete their General Studies courses and the 2000-level business core courses.
- The University requires at least 40 credit hours of upper-division courses (3000 or 4000 level). Consult with an advisor to ensure that your specific degree program meets this requirement.
- A minor is not required for students whose major is Accounting, Banking, Business Administration, Business Intelligence, Computer Information Systems, Finance, Human Resource Management, International Business, Management, Marketing or Professional Selling.

The following sections describe the scope of the degree program, course requirements, career opportunities, and competencies for career success in each degree program.

## Minors in the College of Business

The College of Business offers minors in Accounting, Advertising and Promotion, Banking, Business (non-business majors only),

Business Sustainability, Computer Information Systems, Digital Marketing, Economics, Entrepreneurship, Financial Services, General Finance, Human Resource Management, International Business, Management, Marketing, and Sales. Most minors require 18 credit hours plus prerequisites, if any. The acceptance of transfer credits will be governed by standards and policies of the College of Business and its departments.

Students should choose a minor that will help them in their chosen career. Minors should be declared with the help of a faculty advisor or department chair of the appropriate department.

## Certificates in the College of Business

The College of Business offers certificates in Digital Marketing (Department of Marketing), Sales (Department of Marketing), Entrepreneurship (Department of Management), and Personal Financial Planning (Department of Finance). A Graduate Certificate in Business Analytics is also available.

## Department of Accounting

**The field of accounting is moving rapidly toward a greater emphasis in the areas of information systems, management consulting, and leadership in organizational change.**

### Mission

*The Accounting Department at MSU Denver provides high quality, accessible, enriching undergraduate and master's accounting education in an urban setting appropriate to a diverse student population enrolled under modified open admission standards. The baccalaureate program prepares students for careers, graduate education, and lifelong learning in a global and technological society. The department is committed to ethical values, continuous improvement, and mutual respect within a diverse campus community.*

*The Master of Professional Accountancy (MPAcc) develops in-depth competence of accounting skills and practices within a student's chosen concentration: taxation, fraud and forensic audit, or accounting. It emphasizes the development of written and oral communication skills, teamwork and critical thinking skills, and provides a sound understanding of the legal and regulatory environments. The goal of this program is to prepare students for professional leadership positions.*

*The Accounting Department pursues excellence in teaching and learning as its primary purpose. Intellectual contributions in accounting and related fields that enhance teaching and learning and contribute to scholarship through both applied research and other avenues of professional development are secondary though fundamental to the mission of the Accounting Department. Service to MSU Denver, the accounting profession, and the community and society in general is also secondary albeit fundamental to the mission of the Accounting Department.*

## Successful accounting students possess these skills and attributes:

- ability to organize, analyze, and interpret numerical data;
- strategic and critical thinking skills;
- proficiency in oral and written communications with the ability to explain complex financial data to others;
- ability to apply current technology;
- knowledge of financial and economic history, practices, and trends;
- ability to work collaboratively as well as independently;
- understanding of the methods for creating, leading, and managing change in organizations.

## The accounting program prepares students for entry into careers in public accounting, industry, tax, and the government sector, as well as graduate education and lifelong learning.

Accountants can obtain a variety of professional certifications, including Certified Public Accountant, Certified Internal Auditor, Certified Fraud Examiner, Certified Information Systems Auditor, and Certified Management Accountant. Each professional certification program includes rigorous education, examination, experience, and ethics requirements.

Students majoring in accounting and interested in pursuing an International Business concentration should see an advisor. Students interested in the MPAcc program should refer to the Graduate Catalog for details.

Click on the links below for degree and program requirements.

## Academic Programs

- [Accounting Major, B.S.](#)
- [Accounting Minor](#)

## Accounting Major, B.S.

[Department of Accounting](#)

[College of Business](#)

Available Program Format(s): [Online, In-Person, Hybrid](#)

## About the Program

The undergraduate accounting program offers a broad education in accounting and business that provides students the foundational global knowledge, skills and abilities to ethically engage in an accounting career, and be able to prepare and communicate accounting information for management and stakeholder decision-making.

In addition to the business core, students will also complete coursework in 5 areas within the accounting discipline to ensure that graduates are also prepared to pursue professional licensure and certification, as well as graduate education, within accounting or other business disciplines.

## Student Outcomes

Upon graduation, accounting students will demonstrate comprehension of and competence in the areas of Audit, Accounting Information and Technology, Financial Accounting and Reporting, Managerial Accounting, and Taxation.

The College of Business B.S. programs, including Accounting, share a common set of five learning goals reflecting cross-disciplinary core competencies, knowledge, and skills.

*GOAL 1: Communication* - Business students will be able to communicate effectively.

1.1 - Prepare effective written communication

1.2 - Deliver effective oral presentations

*GOAL 2: Decision Making* - Business students will be able to analyze business decisions and propose recommendations drawn from appropriate frameworks.

*GOAL 3: Business Environment* - Business students will be knowledgeable of global and ethical frameworks and how they relate to business decisions.

3.1 - Analyze global business factors and their impact on business solutions.

3.2 - Analyze ethical considerations and their impact on business solutions.

*GOAL 4: Technological Agility* - Business students will demonstrate the ability to readily adapt to and apply new technologies to inform business decisions.

*GOAL 5: Core Knowledge* - Business students will demonstrate competence in required business topics, including accounting, computer information systems, finance, marketing, management, and business law.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Accounting, a student must successfully complete 30 or more credit hours

of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least 12 upper-division semester hours in Accounting at MSU Denver.

- A grade of C or better is required for each accounting course and a C- or better is required in business courses to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### Additional Program Information:

- Students interested in becoming Certified Public Accountants (CPAs) in Colorado should be aware that they must take two auditing courses and one ethics course to qualify for licensure. To fulfill CPA requirements, one of the two required auditing courses must be ACC 4200 - Auditing and Attestation. All states require 150 semester hours of education to become a licensed CPA. MSU Denver offers classes that satisfy the 150-hour requirement for licensure.
- ACC 1010 will not substitute as a requirement in the Bachelor of Science in Accounting.
- Students should consult an Accounting faculty advisor to develop an appropriate academic program. A wide variety of internship opportunities are available through the C2 Hub.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication (one of these courses is required in the College of Business Additional Requirements)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics (required in the College of Business Additional Requirements)
  - **Recommended:** ECO 2020 - Principles of Microeconomics (required in the College of Business Additional Requirements)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in Accounting. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Accounting. A student cannot register for a business core course until all General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy are complete.

- ACC 2010 - Principles of Accounting I **Credits:** 3 \*\*
- ACC 2020 - Principles of Accounting II **Credits:** 3 \*\*
- BUS 1850 - Introduction to Business **Credits:** 3
- BUS 1950 - Business Communication **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits:** 3
- CIS 3320 - Business Analytics II (Prescriptive) **Credits:** 3
- FIN 3300 - Managerial Finance **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 4950 - Strategic Management **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

*\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

*\*\* Accounting majors must earn a minimum grade of C in all accounting courses.*

### College of Business Additional Requirements: 15 credits

- COMM 1010 - Presentational Speaking **Credits:** 3  
or

- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3** (*MTH 1410, MTH 2410 or MTH 2420 may be substituted for MTH 1320*)
- PSC 1010 - American National Government **Credits: 3**

### Ethics Requirement: 0-3 credits

- ACC 4440 - Accounting Ethics and Professionalism **Credits: 3**  
or
- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**  
or
- Enrollment in the MPAcc 3+2 Program

### Accounting Major Requirements: 18 credits

Accounting majors should have learning experiences that focus on the development, measurement, analysis, validation, and communication of financial and other information. The following courses are required for all majors in Accounting.

- ACC 3090 - Income Tax I **Credits: 3**
- ACC 3300 - Accounting Information Systems **Credits: 3**
- ACC 3400 - Cost Accounting **Credits: 3**
- ACC 3510 - Intermediate Accounting I **Credits: 3**
- ACC 3520 - Intermediate Accounting II **Credits: 3**
- ACC 4200 - Auditing and Attestation **Credits: 3**

### Accounting Electives: 6 credits

Students should complete 6 credits of upper division accounting courses. Below are suggested courses, but any upper division ACC course (3000 or 4000 level) will count towards this requirement.

- ACC 3100 - Income Tax II **Credits: 3**
- ACC 3110 - Volunteer Income Tax Assistance (VITA) **Credits: 3**
- ACC 3200 - Governmental Accounting **Credits: 3**
- ACC 3750 - International Accounting **Credits: 3**
- ACC 3980 - Internship in Accounting **Credits: 1-15**
- ACC 4440 - Accounting Ethics and Professionalism **Credits: 3**
- ACC 4510 - Advanced Accounting **Credits: 3**
- ACC 4520 - Mergers and Acquisitions **Credits: 3**
- ACC 4700 - Internal Auditing **Credits: 3**

### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Additional Requirements	15 credits
Ethics Requirement	0-3 credits
Major Requirements	18 credits
Major Electives	6 credits
Senior Experience	(counted in business core)
Unrestricted Electives	6-21 credits
<b>Total for the Accounting Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Accounting Minor

The accounting minor offers students a broad-based education in accounting, emphasizing a particular field within this discipline, such as financial accounting, managerial accounting, tax accounting, or governmental accounting.

The Accounting Department requires 60 credit hours (junior standing) before taking upper-division accounting courses. At least 12 hours of accounting courses in the minor must be completed in residency at MSU Denver. In order to meet the 18 credit hours requirement for a minor, a business major seeking a minor in accounting will have ACC 2010 - Accounting Principles I and ACC 2020 - Accounting Principles II waived from the Business Core requirements.

A grade of "C" or better is required for an accounting course to count towards a minor.

## Required Courses:

- ACC 2010 - Principles of Accounting I **Credits: 3**
- ACC 2020 - Principles of Accounting II **Credits: 3**
- ACC 3090 - Income Tax I **Credits: 3**
- ACC 3510 - Intermediate Accounting I **Credits: 3**
- 6 credits of approved electives\*

**Total Credits Required for Accounting Minor:  
18**

*\*A student may select any course in the accounting program or curriculum provided that the course is approved by an Accounting Department advisor.*

## Department of Computer Information Systems and Business Analytics

**With a degree in the rapidly expanding area of information systems in the business world, students can look forward to challenging careers in computer information systems.**

### Mission

*The Department of Computer Information Systems and Business Analytics delivers high quality, accessible undergraduate business information systems education to a diverse student population. We prepare students to analyze, design, develop, and use business applications utilizing contemporary technology. We provide a balance between fundamental information systems concepts and the application of these concepts from a future-oriented perspective.*

*The Department of Computer Information Systems and Business Analytics provides an undergraduate major and minor in information systems. We offer service courses in information systems and quantitative methods to College of Business students, and applied computer courses to students university-wide.*

*The Department of Computer Information Systems and Business Analytics faculty pursues excellence in teaching and learning as its primary purpose. We provide degree and career planning assistance. We nurture learning through individual attention to students. The faculty aggressively engage in professional development activities to enhance instruction and contribute to scholarship and applied research, and engage in pursuit of currency in Information Systems. The faculty integrate current technology into the curriculum and provide service to the institution, the profession and the community at large.*

**Successful students in the Computer Information Systems program will be able to demonstrate skills and competencies in the following areas:**

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Support the delivery, use, and management of information systems within an information systems environment. [IS]

Click on the links below for degree and program requirements.

### Academic Programs

- [Computer Information Systems Major, B.S.](#)
- [Business Intelligence Major, B.S.](#)
- [Computer Information Systems Minor](#)

Students majoring in Computer Information Systems are encouraged to select an area of concentration or to select advanced courses that best meet their needs in areas such as systems analysis, design, and development; programming; database management/administration; data communications; networks/network administration; website development/administration; information systems security; business analytics; and management of information systems. Advising for these areas is available from the department advisor, department chair and individual faculty members.

Students pursuing a Bachelor's degree in Computer Information Systems are required to participate in assessment activities at both the department and college levels during their senior year.

Students majoring in Computer Information Systems and interested in pursuing an International Business Concentration should see an advisor.

### Business Intelligence Major, B.S.

[Department of Computer Information Systems and Business Analytics](#)

[College of Business](#)

Available Program  
Format(s): [Online](#), [In-Person](#),  
[Hybrid](#)

### About the Program

The AACSB-Accredited Bachelor of Science in Business Intelligence degree provides a solid foundation in business data analytics as well as the ability to use state-of-the-art methods to stay ahead of the curve in decision-making processes. The program addresses Information Systems topics such as problem-solving, database management systems, systems analysis and design, and information systems security. In addition, the following subjects are part of the degree: business analytics (descriptive, predictive and prescriptive), knowledge discovery and data mining, data science and big data, and data warehousing. The degree contains coverage of classic and cutting-edge tools and techniques including optimization models, waiting line models, simulation and transportation models, as well as key statistical-based tools such as regression modeling, analysis of variance, and tests of independence. Other topics included are data structures and data visualization approaches, advanced methods for predictive analytics using the state-of-the-art software R, supervised

learning methods such as neural nets, KNN, classification and regression trees, along with unsupervised learning methods such as association rules, cluster analysis, and principal component analysis. Given the importance of primary and secondary data to the processes of marketing planning and strategy, as well as of marketing insights and product innovation, the degree also includes content of marketing research methods and tools.

## Student Outcomes

### *Goal 1 - Communication:*

Students will be able to communicate effectively.

Objective 1.1 - Prepare effective written communication

Objective 1.2 - Deliver effective oral presentations

### *Goal 2 - Decision Making:*

Students will be able to discover business problems and propose recommendations drawn from appropriate frameworks.

Objective 2.1 - Evaluate the situation using appropriate methods and tools

Objective 2.2 - Recommend potential solutions using appropriate methods and tools

### *Goal 3 - Business Environment:*

Students will be knowledgeable of ethical and global frameworks and how they relate to business decisions.

Objective 3.1 - Students will be able to assess ethical considerations in business decision making.

Objective 3.2 - Students will demonstrate an understanding of the implications of operating in a global business environment.

### *Goal 4 - Core Knowledge:*

Students will demonstrate competence in required business intelligence topics.

Objective 4.1: Database Management

Objective 4.2: Data Mining/Machine Learning

Objective 4.3: Big Data Analytics

Objective 4.4: Marketing Research

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Business Intelligence, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC,

ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher.

- A grade of C- or better is required for each course in the **Business Core** to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication, as one of these is required to fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320 - Calculus for the Management and Social Sciences, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics these courses fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Global Diversity (0 or 3 credits\*\*)

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in Business Intelligence. A grade of "C-" or

better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Business Intelligence. Students should note that programs differ in the minimum grade required. Please note the pre-requisites required for each course.

- ACC 2010 - Principles of Accounting I **Credits: 3**
- ACC 2020 - Principles of Accounting II **Credits: 3**
- BUS 1850 - Introduction to Business **Credits: 3**
- BUS 1950 - Business Communication **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits: 3**
- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

*\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

### College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3**

### Required Courses: 27 credits

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 2500 - Security Essentials **Credits: 3**
- CIS 3060 - Database Management Systems **Credits: 3**
- CIS 3145 - Business Application Development **Credits: 3**
- CIS 3350 - Knowledge Discovery and Data Mining **Credits: 3**
- CIS 3460 - Data Warehousing and Mining **Credits: 3**
- CIS 4060 - Advanced Database Management Systems **Credits: 3**
- CIS 4370 - Data Science and Big Data Analytics **Credits: 3**
- MKT 3010 - Marketing Research **Credits: 3**

### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Requirements	15 credits
Major Requirements	27 credits
Senior Experience	(counted in business core)
Unrestricted Electives	6-21 credits
<b>Total for the Business Intelligence Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Computer Information Systems Major, B.S.

[Department of Computer Information Systems and Business Analytics](#)

Available Program Format(s): [Online Learning](#)

[College of Business](#)

### About the Program

The Computer Information Systems (CIS) bachelor's program offers a challenging education in both general business and modern technology that will allow the student to become part of the fast-paced digital world. This is the only CIS program in Colorado accredited by both **AACSB and ABET**, the world's top accrediting agencies for business and engineering/technology/computing programs.

The Computer Information Systems courses involve hands-on experience in the latest technologies applied in the context of business. Not only does the student have opportunities to take courses in HTML5 and CSS3, Java/Python, PHP and operating systems such as Windows, UNIX and Linux, but can also take advantage of advanced studies in cybersecurity, business analytics, systems analysis and design, database design and administration, telecommunications, local and wide-area networking, data mining, ERP/SAP, Web administration and application development.

### Student Outcomes

- SO1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- SO2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- SO3: Communicate effectively in a variety of professional contexts.
- SO4: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- SO5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- SO6: Support the delivery, use, and management of information systems within an information systems environment.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Computer Information Systems, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in Computer Information Systems at MSU Denver.
- A grade of C- or better is required for each course in the **Business Core** to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)

- **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication, as one of these is required to fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320 - Calculus for the Management and Social Sciences, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics. These courses fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in Computer Information Systems. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Computer Information Systems. Students should note that programs differ in the minimum grade required. Please note the pre-requisites required for each course.

- ACC 2010 - Principles of Accounting I **Credits:** 3
- ACC 2020 - Principles of Accounting II **Credits:** 3
- BUS 1850 - Introduction to Business **Credits:** 3 \*
- BUS 1950 - Business Communication **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3

- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits: 3**
- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

*\*Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

## College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3**

## Computer Information System Major Requirements: 30 credits

(21 required credits plus 9 credits from Option 1 or 9 credits from Option 2):

### Required Courses: 21 credits

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 3050 - Fundamentals of Systems Analysis and Design **Credits: 3**
- CIS 3060 - Database Management Systems **Credits: 3**
- CIS 3230 - Telecommunication Systems and Networking **Credits: 3**
- CIS 3145 - Business Application Development **Credits: 3**
- CIS 3500 - Information Systems Security **Credits: 3**
- CIS 4050 - Systems Analysis and Design **Credits: 3**

### Option 1: CIS Degree (9 credits)

This option does not require students to declare an area of concentration and thus allows them maximum flexibility in choosing

their two upper-division CIS Electives and their CIS Capstone Group course.

- Computer Information Systems Capstone Group (any 4000-level CIS course excluding CIS 4050) (3 credits)
- Upper-division CIS Electives (6 credits)

### Option 2: CIS Degree with an Area of Concentration (9 credits)

This option requires students to declare one, and only one, area of concentration. The area of concentration chosen dictates the CIS electives the students take. In addition, students complete the same set of core CIS courses as in Option 1.

#### Select one of the following concentrations:

##### Application Development

- CIS 3030 - Business Web Page Development **Credits: 3**
- CIS 4060 - Advanced Database Management Systems **Credits: 3**
- CIS 4160 - Advanced Programming Seminar **Credits: 3**

##### Business Analytics Concentration

- CIS 3350 - Knowledge Discovery and Data Mining **Credits: 3**
- CIS 3460 - Data Warehousing and Mining **Credits: 3**
- CIS 4370 - Data Science and Big Data Analytics **Credits: 3**

##### Database Development and Administration

- CIS 3460 - Data Warehousing and Mining **Credits: 3**
- CIS 4060 - Advanced Database Management Systems **Credits: 3**
- CIS 4260 - Database Administration **Credits: 3**

##### Information Systems Security

- CIS 4500 - Information Systems Security Tools and Techniques **Credits: 3**
- CIS 4550 - Information Systems Security Management and Information Assurance **Credits: 3**  
and
- CIS 4280 - Network Installation and Administration **Credits: 3**  
or
- CIS 4281 - Network Installation and Administration with UNIX/Linux **Credits: 3**

##### Network Systems and Administration

- CIS 3280 - LAN and WAN Systems for Business **Credits: 3**

and two of the following courses:

- CIS 4280 - Network Installation and Administration **Credits: 3**
- CIS 4281 - Network Installation and Administration with UNIX/Linux **Credits: 3**
- CIS 4500 - Information Systems Security Tools and Techniques **Credits: 3**

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 3060 - Database Management Systems **Credits: 3**  
CIS Upper Division Electives\*

#### Web Development and Administration

- CIS 3030 - Business Web Page Development **Credits: 3**
- CIS 4030 - Web Site Administration **Credits: 3**
- CIS 4500 - Information Systems Security Tools and Techniques **Credits: 3**

#### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

#### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
Additional Requirements	15 credits
Major Requirements	30 credits
Senior Experience	(counted in business core)
Unrestricted Electives	3-18 credits
Total for the Computer Information Systems Major, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

#### Computer Information Systems Minor

This minor will provide a basic understanding of the concepts, current methodology, and rapid changes in the design, development, and use of computer-oriented systems for businesses and organizations. At least 9 credits of computer information systems courses in the minor must be completed in residency at MSU Denver. A grade of "D-" or better must be earned in each course required for the minor. Students should note that programs differ in the minimum grade required.

#### Required Courses:

- CIS 2010 - Foundations of Information Systems **Credits: 3**

#### Total Hours Required for Computer Information Systems Minor: 18

#### Note:

*\*Electives are selected in consultation with and approved by an advisor in the Department of Computer Information Systems and Business Analytics.*

#### Department of Economics

MSU Denver's Economics program is not a business program and Economics majors do not have the same requirements as other majors in the College of Business. For example, Economics majors do not need to take the business core nor the special General Studies required of business majors. Graduates will receive a Bachelor of Arts degree instead of a Bachelor of Science degree.

#### Bachelor of Arts

The Department of Economics is a non-business degree program housed in the College of Business offering a traditional Bachelor of Arts degree. Economics is the scientific study of the allocation of scarce or limited resources among competing uses. The study of economics provides specialized and general knowledge of the operation of economic systems and institutions. The bachelor of arts degree program gives students a fundamental knowledge of domestic and foreign economies and the quantitative tools necessary for independent analytical research and thought. Specialized courses develop the student's ability to apply the tools of economic theory and analysis to a broad range of social, political, and economic issues. Such training is essential for graduates who wish to qualify for positions as professional economists and provides an excellent background for students interested in law school or graduate programs in economics, finance, or business. Majors interested in graduate studies in economics are highly encouraged to minor in mathematics.

#### Mission

Our mission statement reflects our commitment.

*The Department of Economics at the Metropolitan State University of Denver delivers a high quality, accessible bachelor of arts program in economics while also providing significant service to the University, the College of Business, and the community by providing accessible and quality general studies courses in the principles of microeconomics and macroeconomics. We prepare students for lifelong learning in a complex free civil society; for graduate or professional education in economics, business and legal studies, or*

the law; and for careers in a broad range of private and public activities.

*The Department of Economics pursues excellence in teaching and learning as its primary purpose. The faculty of the department engages in scholarly activity that contributes to the literature in applied and basic economic research and other professional activity that enhances quality instruction.*

While most positions as a professional economist require graduate training, for someone with a bachelor's degree employment opportunities are available in national and international business; federal, state and local government; and various nonprofit organizations.

### **Successful economics students will attain the following competencies:**

- ability to examine, analyze, and interpret data;
- sound decision-making abilities;
- proficiency in oral and written communications;
- knowledge of economic theory, history, practices, and trends;
- knowledge of statistical procedures;
- ability to follow and interpret economic and political trends.

### **Academic Programs**

- [Economics Major, B.A.](#)
- [Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Economics Minor](#)

### **Economics Major, B.A.**

[Department of Economics](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

MSU Denver's Economics program is not a business program and Economics majors do not have the same requirements as other majors in the College of Business. For example, Economics majors do not need to take the business core. Graduates will receive a Bachelor of Arts degree instead of a Bachelor of Science degree.

### **About the Program**

The Department of Economics is a non-business degree program housed in the College of Business offering a traditional Bachelor of Arts degree. Economics is the scientific study of the allocation of scarce or limited resources among competing uses. The study of economics provides specialized and general knowledge of the operation of economic systems and institutions. The bachelor of arts degree program gives students a fundamental knowledge of domestic and foreign economics and the quantitative tools necessary for

independent analytical research and thought. Specialized courses develop the student's ability to apply the tools of economic theory and analysis to a broad range of social, political, and economic issues. Such training is essential for graduates who wish to qualify for positions as professional economists and provides an excellent background for students interested in law school or graduate programs in economics, finance, or business. Majors interested in graduate studies in economics are highly encouraged to minor in mathematics.

### **Student Outcomes**

#### Mission

Our mission statement reflects our commitment.

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- proficiency in oral and written communications;
- knowledge of economic theory, history, practices, and trends;
- knowledge of statistical procedures;
- ability to follow and interpret economic and political trends.

### **General Degree Requirements**

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)

- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. The Minor must be a minimum of 18 credits.
- A student must complete at least twelve (12) upper-division semester hours in economics at MSU Denver.

## General Studies: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1110 - College Algebra for Calculus or MTH 1111 - College Algebra for Calculus with Laboratory or MTH 1210 - Introduction to Statistics or MTH 1310 - Finite Mathematics for the Management and Social Sciences or MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory or MTH 1400 - Precalculus Mathematics (these course options are also in the additional requirement section).
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics (courses required in major)
- Global Diversity (0 or 3 credits\*\*)
  - **Recommended:** ECO 3800 - Development Economics

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- **Recommended:** ECO 3600 - Economics of Race and Gender

## Additional Requirements: 8 credits

- MTH 1110 - College Algebra for Calculus **Credits: 4**  
or
  - MTH 1111 - College Algebra for Calculus with Laboratory **Credits: 4**  
or
  - MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits: 4**  
or
  - MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory **Credits: 4**  
or
  - MTH 1400 - Precalculus Mathematics **Credits: 4**
- (Any of these courses serves as a pre-requisite for ECO 3010)
- and
- MTH 1210 - Introduction to Statistics **Credits: 4**  
(This course is a pre-requisite for ECO 3150 or ECO 3160)

## Required Courses: 15 credits

- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- ECO 3010 - Intermediate Microeconomics **Credits: 3**
- ECO 3020 - Intermediate Macroeconomic Theory **Credits: 3**
- ECO 3150 - Econometrics **Credits: 3**  
or
- ECO 3160 - Business and Economic Forecasting **Credits: 3**

## Economics Electives: 18 credits

A minimum of 18 upper-division semester hours in economic courses selected from the list below (or upper-division omnibus courses).

If you take both ECO 3150 and ECO 3160 one will fulfill 3 credits of Required Courses and one will fulfill 3 credits for upper-division electives

- ECO 3100 - Money and Banking **Credits: 3**
- ECO 3150 - Econometrics **Credits: 3**
- ECO 3160 - Business and Economic Forecasting **Credits: 3**
- ECO 3200 - Economic History of the U S **Credits: 3**
- ECO 3250 - Labor Economics **Credits: 3**
- ECO 3450 - Environmental Economics **Credits: 3**
- ECO 3500 - Managerial Economics **Credits: 3**
- ECO 3550 - Global Economics and International Trade **Credits: 3**
- ECO 3600 - Economics of Race and Gender **Credits: 3**
- ECO 3700 - Political Economy of the Middle East and North Africa **Credits: 3**

- ECO 3800 - Development Economics **Credits:** 3
- ECO 3850 - Geopolitics and Economics of World Oil Markets **Credits:** 3
- ECO 3980 - Internship in Economics **Credits:** 1-15
- ECO 4100 - Sports Economics **Credits:** 3
- ECO 4200 - Game Theory **Credits:** 3
- ECO 4300 - Public Finance **Credits:** 3
- ECO 4400 - Industrial Organization and Public Policy **Credits:** 3
- ECO 4450 - International Macroeconomics **Credits:** 3
- ECO 4600 - History of Economic Thought **Credits:** 3
- ECO 4650 - Advanced Macroeconomics **Credits:** 3
- ECO 4700 - Law and Economics **Credits:** 3
- ECO 4750 - The Economic Approach to Politics **Credits:** 3

### Senior Experience: 3 credits

- ECO 4800 - Economic Policy Analysis **Credits:** 3

### Economics with Secondary Social Studies Licensure:

Students interested in this concentration should visit the Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration page in the catalog.

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Additional Requirements	8 credits
Major Requirements	15 credits
Major Electives	18 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	40-52 credits
<b>Total for the Economics Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Economics](#)

[College of Business](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Economics Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach Social Studies in Colorado. The program includes an Economics Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure.

Students interested in an Economics Major only should search the MSU Denver catalog separately for that degree option.

### Student Outcomes

#### Economics Student Learning Outcomes:

- Apply tools of microeconomic analysis to explain microeconomic relationships and phenomena.
- Apply tools of macroeconomic analysis to explain macroeconomic and monetary relationships and phenomena.
- Apply tools of statistical analysis to explain economic relationships and phenomena.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

#### Secondary Social Studies Licensure Student Learning Outcomes:

- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Courses recommended below will satisfy both General Studies and additional degree requirements below.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1210 - Introduction to Statistics which also satisfies a major requirement.
- Arts and Humanities (6 credits)
- Historical (3 credits)
  - **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - Recommended: Two of the following: PSC 1010 - American National Government; ANT 2330 - Cross-Cultural Communication; GEG 1000 - World Regional Geography
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools

## Economics Major Core: 15 credits

- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- ECO 3010 - Intermediate Microeconomics **Credits:** 3
- ECO 3020 - Intermediate Macroeconomic Theory **Credits:** 3
- ECO 3150 - Econometrics **Credits:** 3  
or
- ECO 3160 - Business and Economic Forecasting **Credits:** 3

## Economics Major Electives: 15 credits

- ECO 3200 - Economic History of the U S **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3

## Required Math Courses: 8 credits

Take one of the following three courses:

- MTH 1110 - College Algebra for Calculus **Credits:** 4
- MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits:** 4
- MTH 1400 - Precalculus Mathematics **Credits:** 4

Take the following course:

- MTH 1210 - Introduction to Statistics **Credits:** 4  
(This course is a pre-requisite for ECO 3150 and ECO 3160)

Note:

MTH 1210 will also fulfill General Studies Quantitative Literacy requirement.

## Additional Content Courses for Secondary Social Studies Licensure: 27 credits

All students must complete nine Social Science courses for this concentration. Note that twelve credits below can also satisfy General Studies requirements in these categories: Historical (3 credits); Natural and Physical Sciences (3 credits); Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

### Foundations and Strategies for Secondary Teaching: 28 credits

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1 \*\***
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3 \*\***
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3 \*\***
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1 (60-hour field experience)\*\***

Note:

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

### Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should complete 12 credits of EDS 4290 in their final semester.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Economics Major Core	15 credits
Economics Major Electives	15 credits
Required Math Courses	8 credits
Additional Content Courses Secondary Social Studies Licensure	27 credits
Foundation and Strategies for Secondary Teaching Courses	28 credits
Senior Experience	12 credits
<b>Total for the Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration</b>	<b>Minimum of 123 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Economics Minor

The Economics Minor provides students with an opportunity to acquire a general knowledge of the operation of economic systems and institutions, as well as the quantitative tools necessary for analytical research and thought. At least 9 credits of economics courses in the minor must be completed in residency at MSU Denver. Business majors who choose the Economics Minor will have ECO 2010 and ECO 2020 waived from the College of Business and departmental requirements. A grade of "C-" or better must be earned in each course required for the minor. Students should note that programs differ in the minimum grade required.

### Required Courses:

- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- ECO 3010 - Intermediate Microeconomics **Credits: 3**  
-or-
- ECO 3020 - Intermediate Macroeconomic Theory **Credits: 3**
- Upper-division electives: 9 credit hours

**Total Hours Required for Economics Minor: 18**

## Department of Finance

The finance major prepares students for careers that focus on the process of managing the funds of individuals, businesses, and governments.

Career opportunities are available in the fields of corporate finance, personal financial planning, and the financial services industry. The field of corporate finance deals with managing the financial affairs of businesses and governments and includes such activities as budgeting, financial forecasting, cash management, credit administration, investment analysis, and funds management. Careers in the financial services industry include positions in banks, savings and loans, other financial institutions, brokerage firms, insurance companies, and real estate. The most dramatic increase in career opportunities is in personal financial planning, where professionals are needed to provide advice to consumers on the management of their personal financial affairs.

The Finance major is a Certified Financial Planner (CFP®) Board of Standards Registered Program. Students successfully completing the required financial planning courses are eligible to take the national Certified Financial Planner examination.

The pursuit of excellence in teaching and learning is foremost in the mission statement of the Department of Finance.

### Mission

*The Finance Department of the School of Business at Metropolitan State University of Denver delivers high-quality, accessible undergraduate business and personal finance education in the metropolitan Denver area appropriate to a diverse student population and modified open admission standards. We prepare students for careers, graduate education and lifelong learning in a society characterized by technological advancements and globalization.*

*The primary purpose of the Finance Department is the pursuit of excellence in teaching and learning. We nurture learning through individual attention to students. The faculty of the Finance Department engages in professional development activities that enhance instruction and contribute to scholarship and applied research. Our faculty provide service to the institution, the professions and the community at large.*

Click on the links below for degree and program requirements.

### Academic Programs

- [Banking Major, B.S.](#)
- [Finance Major, B.S.](#)
- [Banking Minor](#)
- [Financial Services Minor](#)
- [General Finance Minor](#)
- [Personal Financial Planning Certificate](#)

### Banking Major, B.S.

[Department of Finance](#)

[College of Business](#)

Available Program Format(s): [Online, In-Person, Hybrid](#)

### About the Program

The Banking Degree is a Bachelor of Science Program within the College of Business. Banking majors may either pursue a concentration in Compliance or Financial Analysis or complete the major without a concentration by choosing from a set of courses in consultation with an advisor. Students may add an optional International Business Concentration.

### Student Outcomes

Students will receive a broad education in banking and finance, the banking industry, and related regulatory institutions. Our curriculum is driven with purpose to make you a well-rounded, objective, and analytical banking authority with the managerial skills that can help you achieve a long and lucrative career.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Banking, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, CIS, ECO, FIN, MGT, MKT, or REL and a course number of at least 2000. A student must complete at least twelve (12) upper-division semester hours in BNK or BNK electives at MSU Denver.
- A grade of "C" or better is required for each major course to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### General Studies: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. The Department recommends students complete an Arts

and Humanities, Historical, or Natural and Physical Science elective that also meets the Global Diversity or Multicultural requirements.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the additional College of Business Requirements COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking MTH 1310 - Finite Mathematics for the Management and Social Sciences; or MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory with MTH 1312 - Finite Mathematics Laboratory. MTH 1310 - Finite Mathematics for the Management and Social Sciences and MTH 1311/MTH 1312 are prerequisites to MTH 1320 - Calculus for the Management and Social Sciences, which is an additional requirement for College of Business students completing any Bachelor of Science major. Students may also take MTH 1110 - College Algebra for Calculus; MTH 1108 - College Algebra Stretch, Part I/ MTH 1109 - College Algebra Stretch, Part II; or MTH 1111 - College Algebra for Calculus with Laboratory with MTH 1101 - College Algebra Laboratory.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: Arts and Humanities; Historical; Natural and Physical Sciences; or Social and Behavioral Sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- The College of Business offers two multicultural courses: MKT 3750 - Multicultural Marketing, and MGT 4830 - Workforce Diversity.

### Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in banking. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Banking. Students should note that programs differ in the minimum grade required.

- BUS 1850 - Introduction to Business **Credits:** 3 \*
- BUS 1950 - Business Communication **Credits:** 3
- ACC 2010 - Principles of Accounting I **Credits:** 3
- ACC 2020 - Principles of Accounting II **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits:** 3
- CIS 3320 - Business Analytics II (Prescriptive) **Credits:** 3
- FIN 3300 - Managerial Finance **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 4950 - Strategic Management **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.

### College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits:** 3
- COMM 1010 - Presentational Speaking **Credits:** 3  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits:** 3
- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- MTH 1320 - Calculus for the Management and Social Sciences **Credits:** 3 (pre-requisite: MTH 1310; can also accept MTH 1109, MTH 1110, MTH 1112, or MTH 1400; with a grade of C- or better). Students who took or transferred in MTH 1410 - Calculus I, may substitute this class for the MTH 1320 requirement.

### Banking Major Required Courses: 18 credits

Banking majors must complete the Banking core and a concentration. Banking majors may either pursue a concentration in Compliance or Financial Analysis or complete the major without a concentration by choosing from a set of courses in consultation with an advisor. A minimum grade of "C" is required for courses in the major.

- BNK 2700 - Introduction to Banking **Credits: 3**
- BNK 3600 - Management of Banking Operations **Credits: 3**
- BNK 4600 - Risk Analysis for Financial Services Organizations **Credits: 3**
- ECO 3100 - Money and Banking **Credits: 3**
- FIN 3010 - Financial Markets and Institutions **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**

### Concentration Options (select one): 12 credits

#### Compliance Concentration: 12 credits

- BNK 3800 - Culture and Practice of Compliance **Credits: 3**
- BNK 3900 - Regulatory Environment of Banking **Credits: 3**
- BNK 4750 - Case Studies in Compliance **Credits: 3**
- CIS 2500 - Security Essentials **Credits: 3**

#### Financial Analysis Concentration: 12 credits

- FIN 3600 - Investments **Credits: 3**
- FIN 3850 - Intermediate Finance **Credits: 3**
- FIN 4200 - Financial Modeling with Spreadsheets **Credits: 3**
- FIN 4600 - Security Analysis and Portfolio Management **Credits: 3**

#### Banking Major No Concentration: 12 credits

Choose 12 credits from the following courses in consultation with an advisor:

- ACC 3300 - Accounting Information Systems **Credits: 3**
- ACC 3510 - Intermediate Accounting I **Credits: 3**
- BNK 3800 - Culture and Practice of Compliance **Credits: 3**
- BNK 3900 - Regulatory Environment of Banking **Credits: 3**
- BNK 4750 - Case Studies in Compliance **Credits: 3**
- CIS 2500 - Security Essentials **Credits: 3**
- ECO 3500 - Managerial Economics **Credits: 3**
- FIN 3600 - Investments **Credits: 3**
- FIN 3850 - Intermediate Finance **Credits: 3**
- FIN 4200 - Financial Modeling with Spreadsheets **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 4530 - Organizational Behavior **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MKT 3300 - Marketing of Services **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**

### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
Additional Requirements	15 credits
Major Requirements	18 credits
Concentration Selection	12 credits
Senior Experience	(counted in business core)
Unrestricted Electives	3-18 credits
<b>Total for the Banking Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Banking Minor

This minor offers a focused education in Banking and gives students the tools to pursue a career in banking, lending, and other financial services.

A minimum grade of "C-" is required in all Banking minor courses. Students should note that programs differ in the minimum grade required. A business major seeking a minor in Banking may have ACC 2010 - Principles of Accounting I waived from the Business Core requirements. At least 9 credits of courses in the minor must be completed in residency at MSU Denver.

### Required Courses

- ACC 2010 - Principles of Accounting I **Credits: 3**
- BNK 2700 - Introduction to Banking **Credits: 3**
- BNK 3600 - Management of Banking Operations **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- FIN 3010 - Financial Markets and Institutions **Credits: 3**

### One of the following

- ACC 3300 - Accounting Information Systems **Credits: 3**
- BNK 3800 - Culture and Practice of Compliance **Credits: 3**
- BNK 3900 - Regulatory Environment of Banking **Credits: 3**

- BNK 4600 - Risk Analysis for Financial Services Organizations **Credits:** 3
- BNK 4750 - Case Studies in Compliance **Credits:** 3
- CIS 2500 - Security Essentials **Credits:** 3
- FIN 3100 - International Money and Finance **Credits:** 3
- FIN 4200 - Financial Modeling with Spreadsheets **Credits:** 3
- FIN 4600 - Security Analysis and Portfolio Management **Credits:** 3
- MGT 3530 - Human Resources Management **Credits:** 3
- MKT 3250 - Personal Selling **Credits:** 3
- MKT 3300 - Marketing of Services **Credits:** 3
- MKT 3310 - Consumer Behavior **Credits:** 3

Total Credits: 21

## Finance Major, B.S.

[Department of Finance](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

### About the Program

The Finance Degree is a Bachelor of Science Program within the College of Business. Students will complete all Finance Core classes and choose a required concentration in either General Finance or Financial Services. Students may add an optional International Business Concentration to their degree.

### Student Outcomes

Students will receive a broad education in finance, the financial industry, and related regulatory institutions. Our curriculum is driven with purpose to make you a well-rounded, objective, and analytical financial authority with the managerial skills that can help you achieve a long and lucrative career.

1. Demonstrate proficiency in core knowledge required of finance students.
2. Demonstrate ability to organize, analyze and draw appropriate conclusions from financial information.
3. Apply foundation knowledge and skills necessary to identify problems and generate feasible alternatives.
4. Demonstrate ability to apply financial information to recommend and justify solutions to financial problems.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)

- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Finance, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL. A student must complete at least twelve (12) upper-division semester hours in Finance at MSU Denver.
- A grade of C or better is required for each majors course to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. The Department recommends students complete an Arts and Humanities, Historical, or Natural and Physical Science elective that also meets the Global Diversity or Multicultural requirements.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the additional College of Business Requirements COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication.
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking MTH 1310 - Finite Mathematics for the Management and Social Sciences; or MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory with MTH 1312 - Finite Mathematics Laboratory. MTH 1310 - Finite Mathematics for the Management and Social Sciences and MTH 1311/MTH 1312 are prerequisites to MTH 1320 - Calculus for the Management and Social Sciences, which is an additional requirement for College of Business students completing any Bachelor of Science major. Students may also take MTH 1110 - College Algebra for Calculus; MTH 1108 - College Algebra Stretch, Part I/ MTH 1109 - College Algebra Stretch, Part II; or MTH 1111 - College Algebra for Calculus with Laboratory with MTH 1101 - College Algebra Laboratory.
- Arts and Humanities (6 credits)
- Historical (3 credits)

- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: Arts and Humanities; Historical; Natural and Physical Sciences; or Social and Behavioral Sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- The College of Business offers two multicultural courses: MKT 3750 - Multicultural Marketing, and MGT 4830 - Workforce Diversity.

## Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in finance. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Finance. Students should note that programs differ in the minimum grade required.

- BUS 1850 - Introduction to Business **Credits: 3 \***
- BUS 1950 - Business Communication **Credits: 3**
- ACC 2010 - Principles of Accounting I **Credits: 3**
- ACC 2020 - Principles of Accounting II **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits: 3**
- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

*\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

## College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3** (pre-requisite: MTH 1320; can also accept MTH 1109, MTH 1110, MTH 1112, or MTH 1400; with a grade of C- or better). Students who took or transferred in MTH 1410 - Calculus I, may substitute this class for the MTH 1320 requirement.

## Finance Major Required Courses: 12 credits

Finance students will complete four Finance Core classes and a required concentration in either Financial Services or General Finance. The concentration includes two Upper Division (3000- or 4000-level) Finance electives, one 4000-level Finance elective, and a Finance Concentration capstone (FIN 4950, Financial Strategies and Policies, for General Finance and FIN 4600, Securities Analysis and Portfolio Management, for Financial Services).

- FIN 3010 - Financial Markets and Institutions **Credits: 3**
- FIN 3150 - Personal Financial Planning **Credits: 3**
- FIN 3600 - Investments **Credits: 3**
- FIN 3850 - Intermediate Finance **Credits: 3**

## Concentration Options (select one): 12 credits

### Financial Services Concentration: 12 credits

In consultation with the Finance Department, students will complete three upper division Finance electives and FIN 4600, Securities Analysis and Portfolio Management, or FIN 4750, Seminar in Personal Financial Planning, (when offered). At least one Finance elective must be a 4000-level course. Upper Division Finance internships approved for academic credit will come in as FIN 3980. Students interested in pursuing a financial services career should consider taking FIN 3420, Principles of Insurance; FIN 3450, Retirement Planning and Employee Benefits; and FIN 4400, Estate Planning.

### Required Course: 3 credits

- FIN 4600 - Security Analysis and Portfolio Management **Credits: 3**  
or
- FIN 4750 - Seminar in Personal Financial Planning **Credits: 3**

## Approved Electives: 9 credits

Finance electives include:

- FIN 3100 - International Money and Finance **Credits: 3**
- FIN 3320 - Entrepreneurial Finance **Credits: 3**
- FIN 3420 - Principles of Insurance **Credits: 3**
- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- FIN 3800 - Real Estate Practice and Law **Credits: 3**
- FIN 3810 - Advanced Real Estate Practice and Law **Credits: 3**
- FIN 3980 - Internship in Finance **Credits: 1-15**
- FIN 4200 - Financial Modeling with Spreadsheets **Credits: 3**
- FIN 4400 - Estate Planning **Credits: 3**
- FIN 4500 - Analysis of Financial Statements **Credits: 3**
- FIN 4660 - Advanced Investment Management **Credits: 3**
- FIN 4700 - Special Topics in Finance **Credits: 3**
- FIN 4950 - Financial Strategies and Policies **Credits: 3**

## General Finance Concentration: 12 credits

In consultation with the Finance Department, students will complete three upper division Finance electives and FIN 4950, Financial Strategies and Policies. At least one Finance elective must be a 4000-level course. Upper Division Finance internships approved for academic credit will come in as FIN 3980.

## Required Course: 3 credits

- FIN 4950 - Financial Strategies and Policies **Credits: 3**

## Approved Electives: 9 credits

- FIN 3100 - International Money and Finance **Credits: 3**
- FIN 3320 - Entrepreneurial Finance **Credits: 3**
- FIN 3420 - Principles of Insurance **Credits: 3**
- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- FIN 3800 - Real Estate Practice and Law **Credits: 3**
- FIN 3810 - Advanced Real Estate Practice and Law **Credits: 3**
- FIN 3980 - Internship in Finance **Credits: 1-15**
- FIN 4200 - Financial Modeling with Spreadsheets **Credits: 3**
- FIN 4400 - Estate Planning **Credits: 3**
- FIN 4500 - Analysis of Financial Statements **Credits: 3**
- FIN 4600 - Security Analysis and Portfolio Management **Credits: 3**
- FIN 4660 - Advanced Investment Management **Credits: 3**
- FIN 4700 - Special Topics in Finance **Credits: 3**
- FIN 4750 - Seminar in Personal Financial Planning **Credits: 3**

- FIN 4950 - Financial Strategies and Policies **Credits: 3**

## Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
Additional Requirements	15 credits
Major Requirements	12 credits
Concentration Selection	12 credits
Senior Experience	(counted in business core)
Unrestricted Electives	9-24 credits
<b>Total for Finance Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Financial Services Minor

This minor offers a focused education in the financial services area emphasizing a particular field within this discipline, such as personal financial planning, investments, and financial institutions.

The Department of Finance requires 60 credits (junior standing) prior to taking upper-division finance courses. A minimum grade of "C-" is required in all finance minor courses. Students should note that programs differ in the minimum grade required. At least 9 credits of finance courses must be completed in residency at MSU Denver to satisfy the requirements of the minor.

## Required Courses:

- ACC 2010 - Principles of Accounting I **Credits: 3**
- BUS 2250 - Personal Money Management **Credits: 3**  
or
- FIN 3150 - Personal Financial Planning **Credits: 3**
- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- Upper-division electives\* **Credits: 9**

**Total for Financial Services Minor: 18 credits**

## Suggested Electives for Financial Services

### Minor:

- FIN 3010 - Financial Markets and Institutions **Credits: 3**
- FIN 3320 - Entrepreneurial Finance **Credits: 3**
- FIN 3420 - Principles of Insurance **Credits: 3**
- FIN 3600 - Investments **Credits: 3 \*\***
- FIN 3800 - Real Estate Practice and Law **Credits: 3**
- FIN 3810 - Advanced Real Estate Practice and Law **Credits: 3**
- FIN 4400 - Estate Planning **Credits: 3**
- FIN 4600 - Security Analysis and Portfolio Management **Credits: 3 \*\***
- MKT 3000 - Principles of Marketing **Credits: 3**

### Notes:

*\*Students should select three (3) elective courses in consultation with their Finance Department advisor.*

*\*\*FIN 3600 has a prerequisite of FIN 3300; FIN 4600 has FIN 3600 as a prerequisite.*

## General Finance Minor

This minor offers a broad-based education in general finance. A particular field may be emphasized within this discipline, such as investments, managerial finance, financial institutions, or international finance. A student desiring a strong emphasis should also consider the financial services minor.

For the general finance minor, the student must have completed ACC 2010 (or the equivalent) ECO 2010, ECO 2020, and MTH 1320 which may be applied to the student's General Studies or elective requirements as applicable. The Finance Department requires 60 credit hours (junior standing) prior to taking upperdivision finance courses. A minimum grade of "C-" is required in all finance minor courses. Students should note that programs differ in the minimum grade required. At least 9 hours of finance courses must be completed in residency at MSU Denver to satisfy the requirements of the minor.

### Required Courses:

- FIN 3010 - Financial Markets and Institutions **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- FIN 3600 - Investments **Credits: 3**
- Upper Division Electives\* **Credits: 9**

**Total for General Finance Minor: 18 credits**

*\*A student may select any courses in the finance program or curriculum provided they are approved by a Finance Department advisor.*

## Personal Financial Planning Certificate

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

### Required Courses:

- ACC 3090 - Income Tax I **Credits: 3**
- FIN 3150 - Personal Financial Planning **Credits: 3**
- FIN 3420 - Principles of Insurance **Credits: 3**
- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- FIN 3600 - Investments **Credits: 3 \***
- FIN 4400 - Estate Planning **Credits: 3**

### Notes:

*\* This course has prerequisites. See catalog course description.*

Successful completion of these courses also meets the Certified Financial Planner (CFP®) Board of Standards education requirement to take the national Certified Financial Planner examination. For prerequisites and more information call the Finance Department, 303-615-0707.

## Department of Management

Effective managers are necessary for organizations to compete in today's global economy.

The management program prepares students to pursue a career in human resource management, operations management, entrepreneurship, or general management. The program consists of required courses that build a conceptual foundation for identifying and solving managerial problems. In addition to acquiring knowledge about business and management, students will develop special skills that are necessary to be an effective manager.

### Mission

We engage a diverse student population with a high-quality, inclusive interactive and accessible education. We facilitate the development of knowledge and skills necessary to manage and lead organizations.

Necessary skills the manager should have include:

- proficiency in planning, organizing, leading and controlling activities;
- utilization of problem solving methodology to identify and define organizational problems, devise solutions, and implement the solution to achieve desired outcomes;
- highly developed interpersonal skills;
- an ability to communicate clearly and persuasively;
- use of sound methods for making decisions;

- innovative thinking, self-reliance, creative independent analysis, and sensitivity to social and ethical values.

Students majoring in management and interested in pursuing an International Business concentration should see an advisor.

Click on the links below for degree and program requirements.

## Academic Programs

- [Management Major, B.S.](#) (also available online)
- [Management Minor](#)
- [Entrepreneurship Major, B.A.](#)
- [Entrepreneurship Certificate](#)
- [Entrepreneurship Minor](#)
- [Global Business Studies Major, B.A.](#)
- [Human Resource Management Major, B.S.](#)
- [Human Resource Management Minor](#)
- [Business Sustainability Minor](#)
- [International Business Major, B.S.](#)
- [International Business Concentration](#)
- [International Business Minor](#)

## Business Minor

At least nine credit hours of the required courses for the general minor must be completed in residency at MSU Denver. A grade of "C-" or better is required for each course in this program to count toward the Bachelor's degree. Students earning a B.S. in a degree awarded by the College of Business, a B.A. in Entrepreneurship, or a B.A. in Global Business Studies may not minor in Business.

## Required Courses:

- ACC 1010 - Fundamentals of Accounting **Credits: 3**  
or
- ACC 2010 - Principles of Accounting I **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- FIN 2220 - Small Business Financing **Credits: 3**  
or
- FIN 3010 - Financial Markets and Institutions **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

Minimum Total Hours Required for General Business Minor: 18

## Business Sustainability Minor

The Business Sustainability Minor provides a foundation in business and entrepreneurship for non-business majors to help operationalize

sustainable solutions that they have identified in their Major field of study. This Minor requires a total of 18 credit hours.

## Business Sustainability Minor Required Courses

These four courses are required for the Business Sustainability Minor.

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- MGT 2500 - Small Business Entrepreneurship **Credits: 3**
- MGT 3720 - The Conscious Business: Sustainable Business Strategies for the 21st Century **Credits: 3**
- MGT 3860 - Social Entrepreneurship **Credits: 3**

## Business Sustainability Minor Electives

Choose any two courses (6 credits) out of the electives listed below.

- CET 3320 - Environmental Impact Statements **Credits: 3**
- ECO 3450 - Environmental Economics **Credits: 3**
- ENV 3720 - Waste Management **Credits: 3**
- ENV 3730 - Environmental Risk Assessment **Credits: 3**
- ENV 3740 - Environmental Health **Credits: 3**
- GEG 1700 - Principles of Sustainability **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3**
- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3**
- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MKT 3190 - Marketing for Social Good **Credits: 3**
- MTR 3100 - Air Pollution **Credits: 3**
- PSC 3230 - Environmental Politics **Credits: 3**
- SOC 3770 - Society and the Environment **Credits: 3**
- SSE 1040 - Life Cycle and Systems Engineering - An Introduction **Credits: 3**
- SSE 3500 - Humanitarian Engineering **Credits: 3**
- SSE 4200 - Sustainable Development Strategy **Credits: 3**
- TTM 3000 - Sustainable Tourism and Recreation **Credits: 3**
- UA 3905 - Farm to Table Sustainability **Credits: 3**

**Total: 18 Credits**

Required Courses: 12 credits

Elective Courses: 6 credits

## Entrepreneurship Certificate

The Entrepreneurship Certificate provides business majors and non-degree-seeking students an in-depth study of entrepreneurship content and methods (15 credit hours). To be awarded the Entrepreneurship Certificate, the student must:

- achieve a cumulative GPA of 3.0 or higher in the certificate program;
- earn at least a "C" or better in each of the certificate courses; and
- earn a minimum of 60% of required courses at MSU Denver.

*\* These courses may be taken to satisfy either the Required Courses requirement or the Approved Entrepreneurship Elective requirement but may not be double-counted to satisfy both requirements.*

## Entrepreneurship Major, B.A.

[Department of Management](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

## Required Courses

- MGT 3020 - Entrepreneurship Feasibility and Analysis **Credits: 3**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- FIN 3320 - Entrepreneurial Finance **Credits: 3**

Choose one of the following:

- MKT 3250 - Personal Selling **Credits: 3**
- MKT 4520 - Seminar in Marketing Management **Credits: 3**

**Subtotal: 12 credits**

## Elective Courses

Plus 3 credit hours from approved entrepreneurship elective courses, such as, but not limited to:

- MGT 3220 - Legal Environment of Business II **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MGT 3860 - Social Entrepreneurship **Credits: 3**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**
- MKT 3010 - Marketing Research **Credits: 3**
- MKT 3190 - Marketing for Social Good **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3 \***
- MKT 3300 - Marketing of Services **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 3410 - Marketing Channels **Credits: 3**
- MKT 3910 - New Product Development **Credits: 3**
- CIS 3030 - Business Web Page Development **Credits: 3**
- CIS 3490 - Managing Business Information with Enterprise Systems **Credits: 3**

**Subtotal: 3 credits**

**Total for Entrepreneurship Certificate: 15 credits**

## About the Program

The Entrepreneurship Major offers courses to learn concepts and tools that are required to start and manage own businesses in dynamic business environments.

## Student Outcomes

Students will be able to understand contexts and issues for managing own businesses and be ready to apply those understandings to businesses that they operate now or future.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Arts degree in Entrepreneurship, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in business courses at MSU Denver.
- MSU Denver requires that students successfully complete forty (40) or more credit hours of upper division coursework.
- Students may take more than four entrepreneurship elective courses. Additional entrepreneurship courses will be counted as unrestricted general electives.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students

should note that programs differ in the minimum grade required.

- A minor is required for this program

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the College of Business Requirements such as COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## College of Business Requirements: 12 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits:** 3
- COMM 1010 - Presentational Speaking **Credits:** 3  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits:** 3

- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3

## Entrepreneurship Major Requirements: 48 credits

The Entrepreneurship Major provides students with the marketable skills needed to be successful entrepreneurs and pursue both an avocation and an occupation in some combination. The Entrepreneurship Major requirements consist of twelve required courses (36 credit hours) and four approved entrepreneurship elective courses (12 credit hours). A minimum grade of "C-" or better is required in all entrepreneurship major courses.

## Required Courses: 36 credits

- ACC 1010 - Fundamentals of Accounting **Credits:** 3  
or
- ACC 2010 - Principles of Accounting I **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- FIN 2220 - Small Business Financing **Credits:** 3
- BUS 1850 - Introduction to Business **Credits:** 3
- BUS 1950 - Business Communication **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 2500 - Small Business Entrepreneurship **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 3020 - Entrepreneurship Feasibility and Analysis **Credits:** 3
- MGT 3850 - Global Entrepreneurship **Credits:** 3
- MGT 4420 - Entrepreneurial Business Planning **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

## Approved Entrepreneurship Electives: 12 credits

Select four courses from below:

- BUS 2250 - Personal Money Management **Credits:** 3
- MGT 3860 - Social Entrepreneurship **Credits:** 3  
or
- MKT 3190 - Marketing for Social Good **Credits:** 3
- MGT 3220 - Legal Environment of Business II **Credits:** 3
- MGT 3240 - Employment and Human Resource Law **Credits:** 3
- MGT 3260 - Managing Business Risk **Credits:** 3
- MGT 3530 - Human Resources Management **Credits:** 3
- MGT 3550 - Operations Management **Credits:** 3
- MGT 3980 - Internship in Management **Credits:** 1-15
- MGT 4050 - Purchasing and Supply Chain Management **Credits:** 3  
or

- MKT 3410 - Marketing Channels **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**
- MKT 3100 - Retail Marketing **Credits: 3**
- MKT 3110 - Advertising and Promotion Management **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 3300 - Marketing of Services **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 3910 - New Product Development **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

### Senior Experience: 3 credits

- MGT 4430 - Operationalizing a Small Business **Credits: 3**

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
College of Business Requirements	12 credits
Major Required Courses	36 credits
Major Electives	12 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	21-33 credits
<b>Total for the Entrepreneurship Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Entrepreneurship Minor

The Entrepreneurship Minor provides a foundation in business and entrepreneurship for non-business majors that prepares them to start a business venture related to the area/discipline of their major course of study.

### Required Courses

- MGT 2500 - Small Business Entrepreneurship **Credits: 3**
- MGT 3020 - Entrepreneurship Feasibility and Analysis **Credits: 3**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

CHOOSE ONE OF THE FOLLOWING:

- ACC 1010 - Fundamentals of Accounting **Credits: 3**
- OR

- FIN 2220 - Small Business Financing **Credits: 3**

**Subtotal: 15 credits**

### Elective Course

Plus 3 credit hours from approved entrepreneurship elective courses:

- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MGT 3860 - Social Entrepreneurship **Credits: 3**
- MGT 3980 - Internship in Management **Credits: 1-15**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**
- MKT 3100 - Retail Marketing **Credits: 3**
- MKT 3110 - Advertising and Promotion Management **Credits: 3**
- MKT 3190 - Marketing for Social Good **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 3910 - New Product Development **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

**Subtotal: 3 credits**

**Total for Entrepreneurship Minor: 18 credits**

### Global Business Studies Major, B.A.

[Department of Management](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

### About the Program

The Global Business Studies degree program prepares students to apply for job positions in global nonprofits, NGOs, diplomatic organizations, trade specialists and companies engaged in global business.

### Student Outcomes

Students will be able to understand contexts and issues in global business operations and be ready to apply those understandings to the organizations that they work at now or in the future.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)

- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Arts degree in Global Business Studies, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in business courses at MSU Denver.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the College of Business Requirements, which is COMM 1100 - Fundamentals of Oral Communication
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## College of Business Requirements: 12 credits

- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**

## Global Business Required Courses: 24 credits

- ACC 1010 - Fundamentals of Accounting **Credits: 3**  
or
- ACC 2010 - Principles of Accounting I **Credits: 3**
- BUS 1850 - Introduction to Business **Credits: 3**
- FIN 3100 - International Money and Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3230 - International Business Law **Credits: 3**
- MGT 3820 - International Business **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

## Required Global Cultural Perspectives Courses: 21 credits

- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**  
or
- COMM 2030 - Intercultural Communication **Credits: 3**
- ECO 3550 - Global Economics and International Trade **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MKT 2010 - Marketing Around the Globe **Credits: 3** \*  
or
- MKT 3710 - International Marketing **Credits: 3**  
or
- MKT 3750 - Multicultural Marketing **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

- PSC 2240 - Global Challenges in the Twenty-First Century **Credits: 3**  
or
- PSC 3330 - International Organizations **Credits: 3**  
or
- PSC 3340 - International Political Economy **Credits: 3**

*\*MSU Denver requires that students successfully complete forty (40) or more credit hours of upper-division coursework. Students choosing to take MKT 2010 - Marketing Around the Globe will need to include ten (10) upper-division credits in their minor and/or unrestricted general electives. All other students will need to take a minimum of seven (7) credit hours of upper-division credits in their minor and/or unrestricted general electives.*

## Additional Requirements: 3-5 credits

*Maximum of 3 credits of an international-related Internship may apply to the degree and internships require pre-approval. Select one of the following:*

- ACC 3980 - Internship in Accounting **Credits: 1-15**  
or
- CIS 3980 - Internship in Computer Information Systems **Credits: 1-15**  
or
- FIN 3980 - Internship in Finance **Credits: 1-15**  
or
- MGT 3980 - Internship in Management **Credits: 1-15**  
or
- MKT 3980 - Internship in Marketing **Credits: 1-15**  
or
- Foreign Language Course **Credits: 3-5**  
or
- Study Abroad Course **Credits: 3-5**

## Senior Experience: 3 credits

- MGT 4700 - Global Management **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
College of Business Requirements	12 credits
Major Required Courses	24 credits
Global Cultural Perspectives Courses	21 credits
Additional Requirement	3-5 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	19-33 credits
<b>Total for the Global Business Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Human Resource Management Major, B.S.

[Department of Management](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

## About the Program

People are a company's most important asset. Human Resource personnel play an important role in the recruitment, selection, retention, and training of employees to ensure a company has the best people. The program consists of required courses that build a conceptual foundation for developing a comprehensive human resource department in a company that will aid the company in developing a competitive advantage in the industry. In addition to acquiring knowledge about business functional areas and management, students will develop skills/knowledge that are necessary to be an effective human resource manager. The Human Resource Management degree helps prepare students wishing to pursue a career in the field of human resource management.

## Student Outcomes

*Goal 1 - Communication:*

Business students will be able to communicate effectively.

Objective 1.1 - Prepare effective written communication

Objective 1.2 - Deliver effective oral presentations

*Goal 2 -Decision Making:*

Business students will be able to analyze business decisions and propose recommendations drawn from appropriate frameworks.

Objective 2.1 - Evaluate the situation using appropriate methods and tools

Objective 2.2 - Recommend and evaluate potential solutions using appropriate methods and tools

*Goal 3 - Business Environment:*

Business students will be knowledgeable of ethical and global frameworks and how they relate to business decisions.

Objective 3.1 - Analyze global business factors and their impact on business solutions.

Objective 3.2 - Analyze ethical considerations and their impact on business solutions.

#### Goal 4 - Technological Agility:

Business students will demonstrate the ability to readily adapt to and apply new technologies to inform business decisions.

#### Goal 5 - Core Knowledge:

Business students will demonstrate competence in required business topics, including accounting, computer information systems, finance, marketing, management, and business law.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement with COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication, one of which is required for the major.
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320, which is a requirement for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)

- **Recommended:** Students may fulfill this requirement by taking ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics, both of which are required for the major.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3**

## Business Core: 36 credits

Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.

- BUS 1850 - Introduction to Business **Credits: 3**
- BUS 1950 - Business Communication **Credits: 3**
- ACC 2010 - Principles of Accounting I **Credits: 3**
- ACC 2020 - Principles of Accounting II **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits: 3**
- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

## Major Requirements: 21 credits

- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**

- MGT 4530 - Organizational Behavior **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4660 - Employee Selection **Credits: 3**
- MGT 4680 - Strategic Human Resource Management **Credits: 3**

## Major Electives: 6 credits

Select two of following electives for 6 credit hours:

- MGT 3260 - Managing Business Risk **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 3980 - Internship in Management **Credits: 1-15**
- MGT 4550 - Project Management **Credits: 3**
- MGT 4610 - Labor/Employee Relations **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

## Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
College of Business Requirements	15 credits
Business Core	36 credits
Major Requirements	21 credits
Major Electives	6 credits
Senior Experience	(counted in business core)
Unrestricted Electives	9-21 credits
<b>Total for the Human Resource Management Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Human Resource Management Minor

The Human Resource Management Minor provides non-Business majors an understanding of how to effectively maintain and enhance the organization's human resources policies, programs, and practices. Students will have the opportunity to develop the knowledge and

skills necessary to hire, develop, and maintain positive relationships with others in today's increasingly diverse and dynamic work environment. (21 credit hours)

## Required Courses

- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**  
or
- HTE 3550 - Human Resources in Hospitality **Credits: 3**  
or
- HCM 3400 - Human Resources Management in Health Care **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**

**Subtotal: 12 credits**

## Plus 9 Credit Hours from Approved Human Resource Management Elective Courses

- MGT 3980 - Internship in Management **Credits: 1-15**
- MGT 4610 - Labor/Employee Relations **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4660 - Employee Selection **Credits: 3**
- MGT 4680 - Strategic Human Resource Management **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3 \***
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

**Subtotal: 9 credits**

*\* Also approved as Multicultural and Senior Experience course*

**Total for Human Resource Management Minor: 21 credits**

## International Business Major, B.S.

[Department of Management](#)

[College of Business](#)

Available Program Format(s): [In-Person](#)

## About the Program

The International Business Major offers courses to learn concepts and analytical tools that are required for international business operations. The Bachelor of Science in International Business prepares students with an understanding of global business and knowledge in a functional area of business. Upon graduation, students will be prepared to apply for job positions in companies that are engaged in international trade.

## Student Outcomes

Students will be able to understand contexts and issues in international business operations and be ready to apply those understandings to the organizations that they work at now or in the future.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in International Business, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division business semester hours at MSU Denver.
- MSU Denver requires that students successfully complete forty (40) or more credit hours of upper-division coursework.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the

College of Business Requirements such as  
 COMM 1010 - Presentational Speaking or  
 COMM 1100 - Fundamentals of Oral  
 Communication

- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in International Business. A student cannot register for a business core course until all General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy are complete.

- ACC 2010 - Principles of Accounting I **Credits:** 3
- ACC 2020 - Principles of Accounting II **Credits:** 3
- BUS 1850 - Introduction to Business **Credits:** 3
- BUS 1950 - Business Communication **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits:** 3
- CIS 3320 - Business Analytics II (Prescriptive) **Credits:** 3

- FIN 3300 - Managerial Finance **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 4950 - Strategic Management **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

### College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits:** 3
- COMM 1010 - Presentational Speaking **Credits:** 3  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits:** 3
- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- MTH 1320 - Calculus for the Management and Social Sciences **Credits:** 3 (pre-requisite: MTH 1310; can also accept MTH 1109, MTH 1110, MTH 1112, or MTH 1400; with a grade of C- or better)

### International Business Required Courses: 15 credits

- ECO 3550 - Global Economics and International Trade **Credits:** 3
- FIN 3100 - International Money and Finance **Credits:** 3
- MGT 3820 - International Business **Credits:** 3
- MGT 4700 - Global Management **Credits:** 3
- MKT 3710 - International Marketing **Credits:** 3

### Additional Requirements: 3-5 credits

*Maximum of 3 credits of an international-related Internship may apply to the degree and internships require pre-approval. Select one of the following:*

- ACC 3980 - Internship in Accounting **Credits:** 1-15  
or
- CIS 3980 - Internship in Computer Information Systems **Credits:** 1-15  
or
- FIN 3980 - Internship in Finance **Credits:** 1-15  
or
- MGT 3980 - Internship in Management **Credits:** 1-15  
or
- MKT 3980 - Internship in Marketing **Credits:** 1-15  
or
- Approved business study abroad course **Credits:** 3  
or
- Foreign language course **Credits:** 3-5

### Business Focus Area Requirements: 12 credits

International Business majors are required to take a minimum of 12 credit hours of upper-division coursework within one of the eight business disciplines. Four upper-division courses should be selected from one of the following prefixes: ACC, BNK, CIS, ECO, FIN, MGT, MKT or REL.

### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits:** 3 (this course is also required in the Business Core)

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Requirements	15 credits
Major Required Courses	15 credits
Additional Requirement	3-5 credits
Business Focus Area	12 credits
Senior Experience	(counted in business core)
Unrestricted Electives	1-18 credits
<b>Total for the International Business Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Management Major, B.S.

[Department of Management](#)

Available Program Format(s): [Online](#), [In-Person](#), [Hybrid](#)

[College of Business](#)

### About the Program

The Management Major offers the choice of a general degree in Management or the option of four concentrations (i.e., Entrepreneurship, Human Resource Management, Legal Environment of Business, or Operations & Supply Chain Management) in which studies in management may be focused on a particular area of practice.

### Student Outcomes

Students will be able to understand concepts and analytical tools required for managing organizations in different contexts and be ready to apply them to the organizations that they work now or future.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Management, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in Management at MSU Denver.
- MSU Denver requires that students successfully complete forty (40) or more credit hours of upper division coursework.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Students may take more than two management elective courses. Additional management courses will be counted as unrestricted general electives.
- Students may want to consider adding the International Business Concentration to their degree program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** Students may fulfill this requirement by taking a course listed in the College of Business Requirements such as COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication
- Quantitative Literacy (3 credits)

- **Recommended:** Students may fulfill this requirement by taking MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses listed in the College of Business Requirements such as ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** Students may fulfill this requirement by taking MGT 4830 - Workforce Diversity which is approved as a Multicultural and Senior Experience course.

## Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in management. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Management. Students should note that programs differ in the minimum grade required. A student cannot register for a business core course until all General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy are complete.

- BUS 1850 - Introduction to Business **Credits:** 3 \*
- BUS 1950 - Business Communication **Credits:** 3
- ACC 2010 - Principles of Accounting I **Credits:** 3
- ACC 2020 - Principles of Accounting II **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits:** 3

- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

*\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

## College of Business Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3** (pre-requisite: MTH 1310; can also accept MTH 1109, MTH 1110, MTH 1112, or MTH 1400; with a grade of C- or better)

## Management Major Required Courses: 18 credits

- MGT 3020 - Entrepreneurship Feasibility and Analysis **Credits: 3**
- MGT 3220 - Legal Environment of Business II **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 3820 - International Business **Credits: 3**
- MGT 4530 - Organizational Behavior **Credits: 3**

## Option 1: Management Degree: 6 credits

In addition to the six required courses (18 semester hours) for the Management Major, students seeking a general degree in management must select two courses from any MGT 3000- or 4000-level course, including, but not limited to:

- MGT 3230 - International Business Law **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3**
- MGT 3260 - Managing Business Risk **Credits: 3**

- MGT 3720 - The Conscious Business: Sustainable Business Strategies for the 21st Century **Credits: 3**
- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MGT 3860 - Social Entrepreneurship **Credits: 3**
- MGT 3980 - Internship in Management **Credits: 1-15**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4350 - Enterprise Planning **Credits: 3**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**
- MGT 4610 - Labor/Employee Relations **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4660 - Employee Selection **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

## Option 2: Management Degree with Concentration

In addition to the six required courses (18 semester hours) for the Management Major, students seeking a more specialized degree in management may choose from the following concentrations:

### Entrepreneurship Concentration: 15 credits

Required Entrepreneurship Concentration Courses: 9 credits

- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

Entrepreneurship Concentration Electives: 6 credits

Select two courses from below:

- FIN 3320 - Entrepreneurial Finance **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MKT 3010 - Marketing Research **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

Human Resource Management Concentration: 15 credits

**Required Human Resource Management Concentration Courses: 12 credits**

- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4660 - Employee Selection **Credits: 3**

**Human Resource Management Concentration Electives: 3 credits**

Select one course from below:

- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- MGT 3260 - Managing Business Risk **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**
- MGT 4610 - Labor/Employee Relations **Credits: 3**
- MGT 4680 - Strategic Human Resource Management **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3**
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

**Legal Environment of Business: 15 credits**

**Required Legal Environment of Business Concentration Courses: 9 credits**

- MGT 3230 - International Business Law **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- PSC 3120 - American Constitutional Law **Credits: 3**

**Required Legal Environment of Business Concentration Electives: 6 credits**

Select two courses from below:

- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3**
- MGT 3260 - Managing Business Risk **Credits: 3**
- JMP 3780 - Communication Law **Credits: 3**
- CJC 2050 - American Judicial System **Credits: 3**
- CJC 2100 - Criminal Law **Credits: 3**
- CJC 3110 - Constitutional Issues in Criminal Procedure and Evidence **Credits: 3**

**Operations and Supply Chain Management Concentration: 15 credits**

**Required Operations and Supply Chain Management Concentration Courses: 9 credits**

- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4350 - Enterprise Planning **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**

**Operations and Supply Chain Management Concentration Electives: 6 credits**

Select two courses from below:

- CIS 3490 - Managing Business Information with Enterprise Systems **Credits: 3**
- CIS 4410 - Management Information Systems **Credits: 3**
- MET 1010 - Manufacturing Processes **Credits: 3**
- MET 1310 - Principles of Quality Assurance **Credits: 3**
- MGT 3230 - International Business Law **Credits: 3**
- MKT 3410 - Marketing Channels **Credits: 3**
- MKT 3610 - Business-to-Business Marketing **Credits: 3**
- MKT 3910 - New Product Development **Credits: 3**
- COMM 3070 - Interpersonal Negotiation **Credits: 3**

**Senior Experience: 3 credits**

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

**Summary of Requirements**

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Requirements	15 credits
Major Required Courses	18 credits
Option 1 No Concentration	6 credits
Option 2 Degree with Concentration	15 credits
Senior Experience	(counted in business core)
Unrestricted Electives	0-24 credits
<b>Total for the Management Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Management Minor**

The management minor prepares individuals for the important tasks of supervising others, working in teams, and taking on additional responsibilities in their fields of interest. At least 9 credits of

management courses in the minor must be completed in residency at MSU Denver.

## Required Courses:

- MGT 2500 - Small Business Entrepreneurship **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3820 - International Business **Credits: 3**
- MGT 4530 - Organizational Behavior **Credits: 3**

Plus 3 hours from MGT courses, such as, but not limited to:

- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3020 - Entrepreneurship Feasibility and Analysis **Credits: 3**
- MGT 3220 - Legal Environment of Business II **Credits: 3**
- MGT 3230 - International Business Law **Credits: 3**
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3**
- MGT 3260 - Managing Business Risk **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 3720 - The Conscious Business: Sustainable Business Strategies for the 21st Century **Credits: 3**
- MGT 3850 - Global Entrepreneurship **Credits: 3**
- MGT 3860 - Social Entrepreneurship **Credits: 3**
- MGT 3980 - Internship in Management **Credits: 1-15**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4350 - Enterprise Planning **Credits: 3**
- MGT 4420 - Entrepreneurial Business Planning **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**
- MGT 4610 - Labor/Employee Relations **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**
- MGT 4660 - Employee Selection **Credits: 3**
- MGT 4830 - Workforce Diversity **Credits: 3 \***
- MGT 4850 - Organizational and Management Consulting **Credits: 3**

Total Hours Required for Management Minor:  
18

## Notes:

*\*This course has been approved as a Multicultural and Senior Experience course.*

## Department of Marketing

The Marketing program prepares students for career opportunities in such dynamic areas as sales management, distribution, advertising, marketing research, retailing, and marketing management.

### Mission

**Students**-Provide students with a first rate education in marketing consistent with the objectives of the College of Business and Metropolitan State University of Denver. Enhance student respect for and excitement for learning.

**Research/Publication**-Maintain a research/publication record that is consistent with curricular needs, technological advancements and meets the challenges of globalization while allowing us to contribute to the knowledge-base of our discipline.

**Service**-Actively participate in various College of Business and MSU Denver committee activities, regional and national professional organizations and provide our services and expertise to the Denver and regional business community.

In addition to the department's well-rounded selection of courses, the curriculum offers students a combination of conceptual and applied learning experiences. Through the development of marketing plans, advertising campaigns and marketing research studies, students have the opportunity to work with Denver-area businesses on current marketing issues and problems. Students are also exposed to a variety of marketing speakers from the business community. Internship positions are available for marketing students through the Center for Applied Learning.

Marketing careers are challenging and rewarding. The field requires an in-depth knowledge of products, services and modern information technology. Marketing is a people-oriented profession encompassing both for-profit companies and non-profit organizations. Since today's competition is creating a greater demand for marketing and promotional efforts, the growth rate of the field is expected to increase in the future. People who are successful in marketing are creative, highly motivated, flexible, and decisive. They also possess the ability to communicate persuasively both in speaking and writing.

Students majoring in marketing and interested in pursuing an International Business concentration should see an advisor.

Click on the links below for degree and program requirements.

### Academic Programs

- [Business Administration Major, B.S.](#)
- [Marketing Major, B.S.](#)
- [Marketing Minor](#)
- [Professional Selling Major, B.A.](#)
- [Business Pathways Certificate](#)
- [Digital Marketing Minor](#)
- [Digital Marketing Certificate](#)

- [Sales Minor](#)
- [Sales Certificate](#)
- [Advertising and Promotion Minor](#)

- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- MKT 3200 - Digital Marketing Fundamentals **Credits: 3**

**Subtotal: 6 credits**

**Total for Minor: 18 credits**

## Advertising and Promotion Minor

This minor is intended for students who have a non-marketing major and who want to add some study of business from a marketing perspective to their degree program. This minor introduces students to the elements of integrated marketing communications, such as advertising, sales promotions, personal selling, direct selling, and public relations. This minor will give students the opportunity to develop practical skills in advertising and promotional strategies.

Students must have a minimum cumulative GPA in the minor of 2.0. The courses cannot be taken pass/fail. Some courses in the minor have prerequisites which must be satisfied. At least nine credit hours of the required courses for this minor must be completed in residency at MSU Denver.

### Required Courses

*\*Courses may have prerequisites that must be satisfied.*

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3110 - Advertising and Promotion Management **Credits: 3**
- MKT 4110 - Brand Management **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

**Subtotal: 12 credits**

### Elective Courses

*\*Courses may have prerequisites that must be satisfied.*

- MKT 3190 - Marketing for Social Good **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 3300 - Marketing of Services **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 3710 - International Marketing **Credits: 3**
- MKT 3750 - Multicultural Marketing **Credits: 3**
- MKT 3980 - Internship in Marketing **Credits: 1-15**
- MKT 4200 - Content Marketing **Credits: 3**
- MKT 4520 - Seminar in Marketing Management **Credits: 3**

#### Alternate Courses

Students may take one of the following courses (3 credits) to replace one elective course.

- ART 1531 - Studio Foundations: 4D **Credits: 3**
- JMP 1000 - Introduction to Journalism and Mass Media **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**

## Business Administration Major, B.S.

[Department of Marketing](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

### About the Program

The B.S. in Business Administration is a general business degree that enables students to build cross-functional expertise and prepares students to progress their career into multi-function business and leadership roles. The B.S. in Business Administration degree program enables students who do not need or desire deep expertise in one functional area an opportunity to create several areas of business focus which match their needs. Students will complete business core and additional requirements that provide a solid foundation across business functions. Within the major, students will select 21 credits of business coursework with a maximum of 9 credits in any one area of business, enabling students to select from a broad array of courses that support students' professional interests. Finally, students complete the degree with a course on Strategic Leadership (MGT 4910). As part of the College of Business, the B.S. in Business Administration is accredited by AACSB.

### Student Outcomes

The purpose of the B.S. in Business Administration is to prepare graduates to progress their career into multi-function business and leadership roles.

*Goal 1: Students will apply outcomes from self-assessments and knowledge from major coursework to clearly communicate career pathways.*

*Goal 2: Students will be able to integrate knowledge across business functions.*

2.1 - Students will be able to integrate data from multiple functional areas to inform decision making.

2.2 - Students will demonstrate knowledge of how to interact with and manage teams in a range of functional areas.

The College of Business B.S. programs, including Business Administration, share a common set of five learning goals reflecting cross-disciplinary core competencies, knowledge, and skills.

*GOAL 1: Communication - Business students will be able to communicate effectively.*

1.1 - Prepare effective written communication

## 1.2 - Deliver effective oral presentations

*GOAL 2: Decision Making - Business students will be able to analyze business decisions and propose recommendations drawn from appropriate frameworks.*

*GOAL 3: Business Environment - Business students will be knowledgeable of global and ethical frameworks and how they relate to business decisions.*

3.1 - Analyze global business factors and their impact on business solutions.

3.2 - Analyze ethical considerations and their impact on business solutions.

*GOAL 4: Technological Agility - Business students will demonstrate the ability to readily adapt to and apply new technologies to inform business decisions.*

*GOAL 5: Core Knowledge - Business students will demonstrate competence in required business topics, including accounting, computer information systems, finance, marketing, management, and business law.*

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- To earn a Bachelor of Science degree in Business Administration, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT and MKT and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in the major at MSU Denver.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication, as one of these is required to fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics these courses fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Business Core: 36 credits

All business majors require foundation coursework in all significant areas of business theory and practice. The following courses are required for all majors in Business Administration. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Marketing. Students should note that programs differ in the minimum grade required. Please note the pre-requisites required for each course.

- BUS 1850 - Introduction to Business **Credits: 3**
- BUS 1950 - Business Communication **Credits: 3**

- ACC 2010 - Principles of Accounting I **Credits: 3**
- ACC 2020 - Principles of Accounting II **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits: 3**
- CIS 3320 - Business Analytics II (Prescriptive) **Credits: 3**
- FIN 3300 - Managerial Finance **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 4950 - Strategic Management **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**

\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Additional Requirements	15 credits
Major Courses	24 credits
Senior Experience	(counted in business core)
Unrestricted Electives	9-24 credits
Total for the Business Administration Major, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## College of Business Additional Requirements: 15 credits

Each of the following courses must be completed for the Business Administration degree.

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1320 - Calculus for the Management and Social Sciences **Credits: 3**

## Major Requirements: 24 credits

- Business Administration majors will select 21 upper-division credits (3000 or 4000 level) from College of Business prefix courses (ACC, BNK, CIS, ECO, FIN, MGT, MKT, REL); must be courses not already taken to fulfill other degree requirements. Students may take a maximum of 9 credits in any one prefix.
- MGT 4910 - Strategic Leadership **Credits: 3**

## Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits: 3** (this course is also required in the Business Core)

## Summary of Requirements

## Business Pathways Certificate

The Business Pathways Certificate is a career-focused introduction to the field of business, developed in partnership with CareerWise Colorado. Introductory business classes provide students with a basic understanding of business functions and career paths, while introducing them to college-level coursework and a university environment. The program also incorporates internships, providing students with meaningful work experience. Students will earn this certificate by successfully completing three academic courses on business topics, a one-credit class on career management, and two semesters of internship.

Students must earn a "C" or better in each course for the certificate.

## Business Pathways Required Courses (10 credits)

Introductory business classes will provide students with a basic understanding of business functions and career paths, while introducing them to college-level coursework and a university environment.

- BUS 1850 - Introduction to Business **Credits: 3**
- CIS 1010 - Introduction to Computers **Credits: 3**
- MKT 1260 - Customer Service **Credits: 3**
- BUS 1500 - Introduction to Career Management **Credits: 1**

## Area-specific Internship (6 credits)

Students must complete 3 credits of BUS 1980 Freshman Internship in Business, then choose one discipline-specific second semester internship, where the student can gain insights into possible career paths in their field of interest (select one: ACC, BNK, CIS, ECO, FIN, MGT, or MKT).

- BUS 1980 - Freshman Internship in Business **Credits: 1-6**

- ACC 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- BNK 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- CIS 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- ECO 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- FIN 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- MGT 1985 - Introduction to Business Careers Internship  
**Credits: 3**
- MKT 1985 - Introduction to Business Careers Internship  
**Credits: 3**

## Digital Marketing Certificate

Digital marketing is a high-growth field focused on utilizing technology, systems, and creative content to develop relationships with current and potential customers. This certificate will enable students to create digital marketing strategies as well as gain practical skills and earn industry-relevant certifications.

Students will take 16 credits of required courses, plus 6 credits of elective courses, for a total of 22 credits for the certificate.

Students must have a minimum cumulative GPA in the certificate of 2.0. The courses cannot be taken pass/fail. Some courses in the certificate have prerequisites which must be satisfied. At least nine credit hours of the required courses for this certificate must be completed in residency at MSU Denver.

### Required Courses

Take each of the following (16 credits):

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3200 - Digital Marketing Fundamentals **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 4200 - Content Marketing **Credits: 3**
- MKT 4540 - Digital Marketing Science **Credits: 4**

### Electives

Take six credits from the following:

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- JMP 2450 - Basic Interactive Production **Credits: 3**
- MKT 3330 - Marketing and Sales Metrics **Credits: 3**
- MKT 3350 - Social Selling **Credits: 3**
- MKT 3980 - Internship in Marketing **Credits: 1-15**
- MKT 4110 - Brand Management **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

## Digital Marketing Minor

Digital marketing is a high-growth field focused on utilizing technology, systems, and creative content to develop relationships with current and potential customers. This minor will enable students to create digital marketing strategies as well as gain practical skills and earn industry-relevant certifications.

Students will take 16 credits of required courses, plus a 3-credit elective, for a total of 19 credits for the minor.

Students must have a minimum cumulative GPA in the minor of 2.0. The courses cannot be taken pass/fail. Some courses in the minor have prerequisites which must be satisfied. At least nine credit hours of the required courses for this minor must be completed in residency at MSU Denver.

### Required Courses

Take each of the following courses (16 credits):

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3200 - Digital Marketing Fundamentals **Credits: 3**
- MKT 3310 - Consumer Behavior **Credits: 3**
- MKT 4200 - Content Marketing **Credits: 3**
- MKT 4540 - Digital Marketing Science **Credits: 4**

### Electives

Take three credits from the following:

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- JMP 2450 - Basic Interactive Production **Credits: 3**
- MKT 3330 - Marketing and Sales Metrics **Credits: 3**
- MKT 3350 - Social Selling **Credits: 3**
- MKT 3980 - Internship in Marketing **Credits: 1-15**
- MKT 4110 - Brand Management **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

Total Credit Hours: 19

## Marketing Major, B.S.

[Department of Marketing](#)

[College of Business](#)

Available Program Format(s): [Online, In-Person, Hybrid](#)

### About the Program

The B.S. in Marketing is a business degree that enables students to build a strong business background and marketing-specific expertise. The program prepares graduates for varied roles in

marketing, spanning from brand building, digital marketing and social media, advertising and promotion, sales management, new product development, retailing and wholesaling, service management, and strategic planning, among many others, for organizations that include small local startups to major multinational corporations. Students will complete business core and additional requirements that provide a solid foundation across business functions. Within the major, students will complete required marketing coursework and choose 12 credits of upper-division marketing electives, enabling students to select from a broad array of courses that support students' professional interests. As part of the College of Business, the B.S. in Marketing is accredited by AACSB.

## Student Outcomes

Upon completion of the B.S. Marketing degree, students will be able to:

1. Identify and apply the stages of the consumer decision process.
2. Demonstrate an understanding of the elements of segmentation, targeting, and positioning as a means of making marketing decisions.
3. Identify and apply the principles of the marketing mix.
4. Demonstrate comprehension of marketing research design and processes.

The College of Business B.S. programs, including Marketing, share a common set of five learning goals reflecting cross-disciplinary core competencies, knowledge, and skills.

*GOAL 1: Communication* - Business students will be able to communicate effectively.

1.1 - Prepare effective written communication

1.2 - Deliver effective oral presentations

*GOAL 2: Decision Making* - Business students will be able to analyze business decisions and propose recommendations drawn from appropriate frameworks.

*GOAL 3: Business Environment* - Business students will be knowledgeable of global and ethical frameworks and how they relate to business decisions.

3.1 - Analyze global business factors and their impact on business solutions.

3.2 - Analyze ethical considerations and their impact on business solutions.

*GOAL 4: Technological Agility* - Business students will demonstrate the ability to readily adapt to and apply new technologies to inform business decisions.

*GOAL 5: Core Knowledge* - Business students will demonstrate competence in required business topics, including accounting, computer information systems, finance, marketing, management, and business law.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Science degree in Marketing, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL and a course number of 2000 or higher. A student must complete at least twelve (12) upper-division semester hours in Marketing at MSU Denver.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication, as one of these is required to fulfill an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1310 - Finite Mathematics for the Management and Social Sciences, as it is the pre-requisite for MTH 1320, which is an "Additional Requirement" for College of Business students completing any Bachelor of Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics these courses fulfill an

"Additional Requirement" for College of Business students completing any Bachelor of Science major.

- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** MKT 3750 - Multicultural Marketing; this course fulfills the multicultural requirement and can be used to fulfill one of the major electives.

### Business Core: 36 credits

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in marketing. A grade of "C-" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Marketing. Students should note that programs differ in the minimum grade required. Please note the pre-requisites required for each course.

- BUS 1850 - Introduction to Business **Credits:** 3
- BUS 1950 - Business Communication **Credits:** 3
- ACC 2010 - Principles of Accounting I **Credits:** 3
- ACC 2020 - Principles of Accounting II **Credits:** 3
- CIS 2010 - Foundations of Information Systems **Credits:** 3
- CIS 3300 - Business Analytics I (Descriptive and Predictive) **Credits:** 3
- CIS 3320 - Business Analytics II (Prescriptive) **Credits:** 3
- FIN 3300 - Managerial Finance **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 4950 - Strategic Management **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.

### College of Business Additional Requirements: 15 credits

- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits:** 3
- COMM 1010 - Presentational Speaking **Credits:** 3  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits:** 3
- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- MTH 1320 - Calculus for the Management and Social Sciences **Credits:** 3

### Marketing Major Requirements: 24 credits

- MKT 3010 - Marketing Research **Credits:** 3
- MKT 3310 - Consumer Behavior **Credits:** 3
- MKT 3710 - International Marketing **Credits:** 3
- MKT 4560 - Marketing Strategy **Credits:** 3
- Upper-division Marketing Electives: any 3000 or 4000 level MKT courses not listed in the Business Core or Major Requirements **Credits:** 12

### Senior Experience: 3 credits

- MGT 4950 - Strategic Management **Credits:** 3 (this course is also required in the Business Core)

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Business Core	36 credits
College of Business Additional Requirements	15 credits
Major Requirements	24 credits
Senior Experience	(counted in business core)
Unrestricted Electives	9-24 credits
<b>Total for the Marketing Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Marketing Minor

The Marketing Minor provides students with the opportunity to develop an understanding of business and sufficient familiarity with marketing skills to work in a business environment. At least 9 credits of marketing courses in the minor must be completed in residency at MSU Denver. A grade of "D-" or better is required for courses in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

## Required Courses

- BUS 1950 - Business Communication **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3
- MKT 3310 - Consumer Behavior **Credits:** 3
- MKT 4520 - Seminar in Marketing Management **Credits:** 3
- 3 elective credits of any course with the MKT prefix
- 3 elective credits of any upper division course (3000 or 4000 level) with the MKT prefix

## Total Semester Hours Required for Marketing Minor: 18

## Professional Selling Major, B.A.

[Department of Marketing](#)

Available Program Format(s): [Online, In-Person, Hybrid](#)

[College of Business](#)

## About the Program

The B.A. in Professional Selling is a specialized curriculum designed to equip students with the necessary skills to launch careers in sales. The program emphasizes the professional selling process, the importance of trust and relationships, value creation and communication, sales enablement technology, and what to expect from a career. In addition to sales-specific coursework, students will complete business courses and additional requirements that provide a background across business functions. The major offers flexibility for students to apply elective credits to a certificate or minor to specialize in an area of sales (a minor is not required). The Center for Professional Selling is recognized as a "Top University for Sales Education" by the Sales Education Foundation and is accredited as a full member by the University Sales Center Alliance.

## Student Outcomes

Upon completion of the Professional Selling Major, B.A., students will be able to:

- Assess a sales opportunity by asking questions
- Develop appropriate responses to buyer objections
- Propose next steps to advance the close

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- To earn a Bachelor of Arts degree in Professional Selling, a student must successfully complete 30 or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, ACCM, BNK, BUS, CIS, ECO, FIN, MGT, MKT, and REL. A student must complete at least twelve (12) upper-division semester hours in Marketing at MSU Denver.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking or COMM 1100 - Fundamentals of Oral Communication (one of these courses required in the prerequisites section)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1210 - Introduction to Statistics\* or MTH 1310 - Finite Mathematics for the Management and Social Sciences\* (one of these courses required in the prerequisites section)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics (these courses required in the prerequisites section)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** MKT 3750 - Multicultural Marketing; this course fulfills the multicultural requirement and is a major requirement.

### Required Prerequisites: 13 credits

- COMM 1010 - Presentational Speaking **Credits: 3**  
or
- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**  
or
- MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits: 4**

*\* MTH 1110 or MTH 1400 is acceptable for transfer students or students changing their major. Consult with the Department of Mathematics and Statistics on substitutions.*

### Professional Selling Major Requirements: 48 credits

- ACC 1010 - Fundamentals of Accounting **Credits: 3**  
or
- ACC 2010 - Principles of Accounting I **Credits: 3**
- BUS 1850 - Introduction to Business **Credits: 3** \*
- BUS 1950 - Business Communication **Credits: 3**
- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- FIN 3150 - Personal Financial Planning **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**

- MKT 2250 - Introduction to Sales **Credits: 3**
- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3160 - Sales Leadership **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 3320 - Inside Sales **Credits: 3**
- MKT 3330 - Marketing and Sales Metrics **Credits: 3**
- MKT 3350 - Social Selling **Credits: 3**
- MKT 3750 - Multicultural Marketing **Credits: 3**

*\* Transfer students that transfer in 6 or more credits of business courses will not need to take BUS 1850 but may take any other College of Business 3-credit hour course that does not appear in their Major or Business Core requirements.*

### Professional Selling Elective Requirements: 12 credits

Twelve credit hours of any upper division MKT prefix courses and/or courses from the approved list:

- MKT 3000-4999 Upper Division Marketing Courses
- MKT 1260 - Customer Service **Credits: 3**
- COMM 3010 - Business and Professional Speaking **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4620 - Performance Management and Reward Systems **Credits: 3**
- MGT 4640 - Employee Training and Development **Credits: 3**

### Senior Experience: 3 credits

- MKT 4250 - Advanced Selling **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Prerequisite Courses	13 credits
Major Requirements	48 credits
Major Electives	12 credits
Senior Experience	3 credits
Unrestricted Electives	8-23 credits
<b>Total for the Professional Selling Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Sales Certificate

The Sales Certificate offers marketing majors, students of all other majors and returning students (seeking professional/continued education) an opportunity to add a sales component to their degree program.

### Required Courses

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3160 - Sales Leadership **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 4250 - Advanced Selling **Credits: 3**

**Subtotal: 12 credits**

### Plus 6 Elective Credits

- MKT 3300 - Marketing of Services **Credits: 3**
- MKT 3320 - Inside Sales **Credits: 3**
- MKT 3330 - Marketing and Sales Metrics **Credits: 3**
- MKT 3350 - Social Selling **Credits: 3**
- MKT 3610 - Business-to-Business Marketing **Credits: 3**
- MKT 3750 - Multicultural Marketing **Credits: 3**
- MKT 3981 - Internship in Sales **Credits: 1-15**

**Subtotal: 6 credits**

## Total Credits for the Sales Certificate: 18

An internship is recommended for students with limited sales experience. Eighteen credits of upper-division, marketing courses are required; twelve credits must be completed at MSU Denver.

## Sales Minor

The Sales Minor offer non-business majors that require a minor an opportunity to add a sales component to their degree program.

### Required Courses

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3160 - Sales Leadership **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 4250 - Advanced Selling **Credits: 3**

**Subtotal: 12 credits**

### Elective Courses

Plus 6 elective credits:

- MKT 3300 - Marketing of Services **Credits: 3**

- MKT 3320 - Inside Sales **Credits: 3**
- MKT 3330 - Marketing and Sales Metrics **Credits: 3**
- MKT 3350 - Social Selling **Credits: 3**
- MKT 3610 - Business-to-Business Marketing **Credits: 3**
- MKT 3750 - Multicultural Marketing **Credits: 3**
- MKT 3981 - Internship in Sales **Credits: 1-15**

**Subtotal: 6 credits**

## Total for Sales Minor: 18 credits

An internship is recommended for students with limited sales experience. Eighteen credits of upper-division, marketing courses are required; twelve credits must be completed at MSU Denver.

# College of Health and Applied Sciences

The College of Health and Applied Sciences (CHAS) primary objective is student success. Through excellence in learning, CHAS prepares students for professional life and post-graduate degrees. CHAS fosters an atmosphere of respect among students, staff, and faculty. Graduates are culturally enriched as a result of our focus on inclusive excellence.

Led by academically qualified faculty bolstered by real-world experience in the health and applied sciences fields, CHAS engages Colorado with partnerships and interacts with the community as a living laboratory through meaningful internships and field placements. CHAS provides opportunities and resources for the life-long learning necessary for career advancement in a global society.

## Departments

- [Department of Aviation and Aerospace Science](#)
- [Department of Computer Sciences](#)
- [Department of Criminal Justice and Criminology](#)
- [Department of Engineering and Engineering Technology](#)
- [Department of Health Professions](#)
- [Department of Human Performance and Sport](#)
- [Department of Human Services and Counseling](#)
- [Department of Industrial Design](#)
- [Department of Nursing](#)
- [Department of Nutrition](#)
- [Department of Social Work](#)
- [Department of Speech, Language, Hearing Sciences](#)

## Centers, Programs, and Institutes

- [Advanced Manufacturing Sciences Institute](#)
- [Air Force ROTC Program](#)
- [Army ROTC Program](#)
- [Health Institute](#)

## Advanced Manufacturing Sciences Institute

In an exciting time of cloud computing, the Industrial Internet of Things and rapid developments in additive manufacturing, robotics and other computer-aided manufacturing technologies, it is vital for U.S. manufacturing that we produce graduates well prepared to meet future challenges and opportunities and that is the primary focus of the Advanced Manufacturing Sciences Institute at MSU Denver.

The mission of the Advanced Manufacturing Sciences Institute (AMSI) is to provide high-quality, experiential education that will develop students into future leaders within the competitive industries of both physical and digital advanced manufacturing.

Our students will acquire real-world learning through state-of-the-art manufacturing equipment and materials, soft skills through carefully chosen curriculum, and collaborations with the professional community to augment the development of skills, knowledge, and dispositions that enable our graduates to immediately fill sought-after positions within advanced manufacturing industries.

## Bachelor of Science in Advanced Manufacturing Sciences

### [Advanced Manufacturing Sciences Major, B.S.](#)

The AMS degree represents a nationally unique Bachelor of Science program focused on advanced (digital) manufacturing equipment, processes and materials, as well as soft skills development for manufacturing career success. By taking a set of core courses that aligned with target core competencies for manufacturing professionals, students acquire a skill set that is in high demand by manufacturing companies throughout the State of Colorado and nationally. In addition to the core courses, students pursuing the AMS degree select a concentration area in which to focus their studies, with a view to targeting a particular industry sector.

Core and concentration area courses are taught by faculty associated with a number of contributing departments, reflecting the multi-disciplinary nature of the Advanced Manufacturing Sciences degree program.

## Contact Information

Advanced Manufacturing Sciences Institute  
Metropolitan State University of Denver  
Campus Box 88 P.O. Box 173362 Denver, CO 80217-3362  
Phone: 303-615-0880 Fax: 303-556-2159  
[amsi@msudenver.edu](mailto:amsi@msudenver.edu)

For more information on the Advanced Manufacturing Sciences Institute, please visit our website: <https://msudenver.edu/advanced-manufacturing/>.

## Advanced Manufacturing Sciences Major, B.S.

### [Advanced Manufacturing Sciences Institute](#)

Available Program Format(s):

### [College of Health and Applied Sciences](#)

[In-Person](#)

## About the Program

The Advanced Manufacturing Sciences Institute is at the forefront of a revolution in America's manufacturing economy - the use of smarter, leaner factories to develop and produce innovative new products, materials, and techniques. This multi-disciplinary degree will prepare students for leading-edge careers in the Advanced Manufacturing sector.

The Advanced Manufacturing Sciences (AMS) baccalaureate degree is a multi-disciplinary major that emphasizes both theoretical and practical applications, providing students with a solid foundation in core skills, knowledge and dispositions to facilitate expertise in advanced manufacturing professional positions.

The major requires a core set of courses, selection of a concentration, and selection of AMS Approved Electives so that each concentration becomes an extended major. The AMS bachelor's degree is accredited through the Higher Learning Commission.

### Core Courses

The core of the AMS program is comprised of a set of courses that are integral to the goal of preparing students as manufacturing professionals in a variety of industry sectors. The required core courses are designed to provide students with a targeted skill set based on the following core competencies: subtractive manufacturing skills (CNC machining & inspection), additive manufacturing skills (including an opportunity to receive a Stratasys Certification), computer-aided design skills, quality assurance skills, soft skills including critical thinking, problem solving, teamwork, leadership and communication, math skills, computer skills including manufacturing data protection, technical writing skills, and basic electronics skills.

### Concentration Courses

The student will choose a concentration in which to specialize:

- Aerospace Concentration
- Industrial Design Concentration
- Mechanical Engineering Technology Concentration
- Operations Management Concentration

### Elective Courses

To assure a breadth of relevant content knowledge, students will select elective courses from the list of AMS Approved Electives. These are all relevant courses selected from the contributing departments. Elective courses address content areas such as Aerospace studies, Engineering Law, Foundations of Information Systems and Problem Solving, basic Computer Science courses, Mathematics, Electronics courses, Design Thinking, Product Usability and computer modeling courses, Manufacturing Engineering and Physics courses.

### Student Outcomes

#### Technical Skills

- Design - Apply scientific, mathematical, and technological knowledge and skills to effectively solve manufacturing problems.
- Processes - Analyze and interpret results of standard tests and measurements to improve manufacturing processes.
- Materials - Analyze and interpret results of standard tests and measurements to select manufacturing materials.
- Equipment & Tools - Implement proper and safe use of manufacturing equipment and tools.

#### Soft Skills

- Communication - Demonstrate effective written, oral, and graphical communication in both technical and non-technical environments.
- Critical Thinking - Analyze and evaluate information gathered by observation, experience, and reasoning and integrate and apply to inform decisions and actions.
- Teamwork - Demonstrate the ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- Students must achieve a minimum GPA of 2.5 within the major.
- A minor is not required for this program.
- Each student is required to complete an appropriate internship related to the degree program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
  - **Recommended:** ENG 1010 - Composing Arguments and ENG 1020 - Research and Argument Writing
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1109 - College Algebra Stretch, Part II or MTH 1110 - College Algebra for Calculus or higher
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)

- **Recommended:** MET 1040 - Introduction to Engineering, PHY 1000 - Introduction to Physics, PHY 2010 - College Physics I, PHY 2030 - College Physics I Laboratory
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** CET 3120 - Engineering Economy and ECO 2020 - Principles of Microeconomics
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### AMS Core Courses: 44 credits

- AMS 1010 - Survey of Advanced Manufacturing and Workplace Preparation **Credits:** 3
- AMS 3010 - Additive Manufacturing Stratasys Certification Preparation **Credits:** 3
- CS 1030 - Computer Science Principles **Credits:** 4
- CSS 2751 - Principles of Cybersecurity **Credits:** 3
- CSS 3753 - Computing and Security for Manufacturing **Credits:** 3
- EET 1001 - Electronics: An Introduction **Credits:** 3
- IND 1450 - Technical Drawing and CAD **Credits:** 3  
or
- CET 1215 - Engineering Graphics **Credits:** 3  
or
- MET 1200 - Technical Drawing I **Credits:** 3
- JMP 2610 - Introduction to Technical Writing **Credits:** 3
- MET 1010 - Manufacturing Processes **Credits:** 3  
or
- IND 2830 - Manufacturing Materials and Processes **Credits:** 3
- MET 1310 - Principles of Quality Assurance **Credits:** 3
- MET 2010 - CNC Machining & Inspection **Credits:** 3
- MET 3000 - Manufacturing Analysis **Credits:** 4
- MET 3630 - Lean Manufacturing Systems Engineering **Credits:** 3

- MTH 1120 - College Trigonometry **Credits:** 3

### Aerospace Concentration: 39 credits

Introduces students to the prime operating settings, systems, and constructs affecting operations conducted in space or that rely on space-based infrastructure for commercialized applications.

- AES 1050 - Introduction to Space **Credits:** 3
- AES 2607 - Introduction to Aerospace Systems Simulation **Credits:** 3
- AES 3600 - Space Flight Operations I **Credits:** 3
- AES 3610 - Elements of Spacecraft Design I **Credits:** 3
- AES 4601 - Space Flight Operations II **Credits:** 3
- AES 3530 - Aerodynamics **Credits:** 3  
or
- AES 3620 - Aerospace Systems Project and Mission Scheduling **Credits:** 3  
or
- AES 4602 - Aerospace Commercialized Operations **Credits:** 3
- AES 4603 - Aerospace Operations Systems Analysis and Design **Credits:** 3
- AES 4620 - Elements of Spacecraft Design II **Credits:** 3
- Advisor Approved Electives: 15 credits with a minimum of 6 upper-division credits

### Industrial Design Concentration: 39 credits

Focuses on exposing students to 3D modeling, CNC machines and advanced materials from an industrial design perspective.

- IND 1000 - Introduction to Industrial Design **Credits:** 1
- IND 1100 - Materials I: Materials and Fabrication **Credits:** 3
- IND 1470 - Design Drawing Techniques **Credits:** 3
- IND 2100 - Digital Composition **Credits:** 3
- IND 2455 - Industrial Design Studio for Non-Majors **Credits:** 3
- IND 3000 - Design Thinking **Credits:** 3
- IND 3260 - Direct Digital Manufacturing **Credits:** 3
- IND 3400 - Product Usability and Ergonomics **Credits:** 3
- IND 3660 - Computer Aided Modeling **Credits:** 3
- Advisor Approved Electives: 14 credits with a minimum of 12 upper-division credits

### Mechanical Engineering Technology Concentration: 39 credits

Provides practice in the ability to improve integrated systems, optimize manufacturing processes, adopt state-of-the-art materials, and produce superior quality products at minimal cost. Coursework

provides students an opportunity to understand the operation and function of more complex technologies used in manufacturing.

- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- MET 1210 - 3D Modeling **Credits: 3**
- MET 2200 - Materials of Engineering **Credits: 3**
- MET 3215 - Composites Manufacturing **Credits: 3**
- MET 3260 - Direct Digital Manufacturing **Credits: 3**
- MET 3410 - Geometric Dimensioning and Tolerancing **Credits: 3**
- MET 4080 - Computer Aided Manufacturing **Credits: 3**
- MET 4370 - Advanced Composite Structures: Design, Damage, Repair and Testing **Credits: 3**
- MTH 1410 - Calculus I **Credits: 4**
- Advisor Approved Electives: 9 credits with a minimum of 9 upper-division credits

## Operations Management Concentration: 39 credits

A holistic perspective on the managerial and organizational systems that are used to make key decisions related to the planning for and day-to-day control of manufacturing operations. Beyond developing competence in analytical and planning skills, particular emphasis is given to the philosophy and methods of lean manufacturing, continuous quality improvement, effective supply chain management and Enterprise Planning.

- BUS 1850 - Introduction to Business **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4350 - Enterprise Planning **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**
- Advisor Approved Electives: 15 credits with a minimum of 6 upper-division credits

## AMS Elective Courses: 9-15 credits

Students are required to take courses from the list below to complete the major. The number of elective credits required varies by the concentration and is stated with each concentration description. Recommended electives have been selected to expand the breadth of knowledge and skills for AMS students and constitute a vital part of the AMS major. Students should consult with an academic advisor prior to selecting electives.

- AES 1050 - Introduction to Space **Credits: 3**
- AES 3530 - Aerodynamics **Credits: 3**
- AES 3600 - Space Flight Operations I **Credits: 3 \***
- AES 4601 - Space Flight Operations II **Credits: 3 \***

- AMS 3980 - Industry Internship **Credits: 1-15**
- BUS 1850 - Introduction to Business **Credits: 3**
- CET 4570 - Engineering Law **Credits: 3 \***
- CHE 1100 - Principles of Chemistry **Credits: 4 \*, \*\***
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1 \*, \*\***
- CIS 1010 - Introduction to Computers **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 3050 - Fundamentals of Systems Analysis and Design **Credits: 3 \***
- CIS 3060 - Database Management Systems **Credits: 3 \***
- CIS 3230 - Telecommunication Systems and Networking **Credits: 3 \***
- CIS 3500 - Information Systems Security **Credits: 3 \***
- CS 1050 - Computer Science 1 **Credits: 4 \***
- CS 2050 - Computer Science 2 **Credits: 4 \***
- EET 2000 - Electric Circuits and Machines **Credits: 3 \***
- EET 2145 - Electronics **Credits: 3 \*, \*\***
- EET 2165 - Electronics Laboratory **Credits: 1 \*, \*\***
- IND 1000 - Introduction to Industrial Design **Credits: 1**
- IND 3000 - Design Thinking **Credits: 3**
- IND 3260 - Direct Digital Manufacturing **Credits: 3 \***
- IND 3400 - Product Usability and Ergonomics **Credits: 3**
- IND 3660 - Computer Aided Modeling **Credits: 3**
- MET 1210 - 3D Modeling **Credits: 3**
- MET 2200 - Materials of Engineering **Credits: 3**
- MET 3215 - Composites Manufacturing **Credits: 3 \***
- MET 3250 - Tool Design and Production Tooling **Credits: 3**
- MET 3300 - Statistical Process Control **Credits: 3**
- MET 3330 - Robotics for Manufacturing **Credits: 3 \***
- MET 3735 - Computer Integrated Manufacturing **Credits: 3**
- MET 4080 - Computer Aided Manufacturing **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3 \***
- MTH 1210 - Introduction to Statistics **Credits: 4 \***
- MTH 1410 - Calculus I **Credits: 4 \***
- MTH 2410 - Calculus II **Credits: 4 \***
- PHY 2020 - College Physics II **Credits: 4 \***
- PHY 2040 - College Physics II Laboratory **Credits: 1 \***

## Senior Experience: 3 credits

- AMS 4950 - Professional Internship **Credits: 1-15**

## Summary of Requirements

General Studies Requirements	33 credits
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Multicultural Requirement	0-3 credits
AMS Core Courses	44 credits
Selected Concentration	39 credits
AMS Electives	(counted in concentration)
Senior Experience	3 credits
Unrestricted Electives	0-10 credits
<b>Total for the Advanced Manufacturing Sciences Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Air Force ROTC

Air Force ROTC (UC-B) Folsom Stadium, 218  
University of Colorado at Boulder  
Boulder, Colorado 80309  
303-492-8351

U.S. Air Force ROTC offers several programs leading to a commission in the US Air Force upon receipt of at least a baccalaureate degree.

### Standard Four-Year Program

- **Air Force ROTC Standard Four-Year Program**

This program is in three parts: the General Military Course (GMC) for lower-division students; the Professional Officer Course (POC) for upper-division students; and the Leadership Laboratory (LLAB), attended by all cadets. Completion of the GMC is a prerequisite for entry into the POC. Completion of a four-week summer training course is required prior to commissioning.

### Modified Two-Year Program

- **Air Force ROTC Modified Two-Year Program**

This program is offered to full-time, regularly enrolled degree students. It requires at least two years of full-time college (undergraduate or graduate level, or a combination). Those selected for this program must complete a six-week field-training program during the summer months as a prerequisite for entry into the POC the following fall semester.

### Leadership Lab

All AFROTC cadets must attend LLAB (one and one-half hours per week). The laboratory involves a study of Air Force customs and courtesies, drills and ceremonies, career opportunities, and the life and work of an Air Force junior officer.

### Other AFROTC Programs

Other programs are frequently available based on current Air Force needs. Any AFROTC staff member in Boulder at 303-492-8351 can discuss the best alternatives. Interested students should make initial contact as early as possible because selection is on a competitive basis. There is no obligation until a formal contract is entered.

### Air Force College Scholarship Program

Students participating in Air Force ROTC may be eligible to compete for Air Force ROTC college scholarships. Students selected for this program are placed on scholarships that pay tuition, book allowances, nonrefundable educational fees, and a subsistence of \$250-\$400 per month, tax-free. All cadets enrolled in the POC receive a month subsistence during the regular academic year. Two- and three-year scholarships are available to both men and women in all academic disciplines.

### Flight Opportunities

Prior to entering the fourth year of the AFROTC program, qualified AFROTC students can compete for pilot allocations. Cadets are eligible to fly with the Civil Air Patrol as ROTC members.

### USAF Medical Programs

Qualified pre-med or nursing students can compete for premed or nursing scholarships and programs. These scholarships and programs can lead to a rewarding career as an Air Force officer, serving as a doctor or nurse.

### AFROTC Course Credit

AFROTC courses may be worth up to 16 credit hours toward graduation depending on degree.

### Registration

Students who wish to register for AFROTC classes sign up for them through the normal course registration process. AFROTC classes begin with the AFR prefix.

### Air Force ROTC Modified Two-Year Program

This program is offered to full-time, regularly enrolled degree students. It requires at least two years of full-time college (undergraduate or graduate level, or a combination). Those selected for this program must complete a six-week field-training program during the summer months as a prerequisite for entry into the POC the following fall semester.

### Air Force ROTC Standard Four-Year Program

This program is in three parts: the General Military Course (GMC) for lower-division students; the Professional Officer Course (POC) for upper-division students; and the Leadership Laboratory (LLAB), attended by all cadets. Completion of the GMC is a prerequisite for entry into the POC. Completion of a four-week summer training course is required prior to commissioning.

## Military Science (Army ROTC)

Metropolitan State University of Denver (MSU Denver)  
Modular Building 1, 633 Curtis Street, Denver, CO 80217  
303-615-2050  
[msudenver.edu/arotc](http://msudenver.edu/arotc)

The Military Science Program at Metropolitan State University of Denver is offered in cooperation with the University of Colorado - Boulder (CU-Boulder). The Department of Military Science offers programs leading to an officer's commission in the active Army, Army Reserve, or National Guard in conjunction with an undergraduate or graduate degree. Military science courses are designed to supplement a regular degree program by offering practical leadership and management experience. Students attend classes at either MSU Denver, University of Colorado at Boulder, or Colorado School of Mines in Golden.

### Four-Year Program

- **Military Science (Army ROTC) Standard Four-Year Program**  
The four-year program consists of two phases: the basic course (freshman and sophomore years) and the advanced course (junior and senior years).

**Basic course.** The basic course offers a 2- or 3-credit course each semester, covering Army history and organization as well as military leadership and management. Laboratory sessions provide the opportunity to apply leadership skills while learning basic military skills. Enrollment in the basic course incurs no military obligation except for Army scholarship recipients.

**Advanced AROTC.** The advanced course covers leadership, tactics and unit operations, training techniques, military law, and professional ethics, and includes a leadership practicum each semester. A 35-day summer advanced camp at Fort Lewis, Washington, provides challenging leadership training, and is a prerequisite for commissioning. Advanced course students must have completed the basic course and obtain permission from the Professor of Military Science (PMS).

### Two-Year Program

- **Military Science (Army ROTC) Standard Two-Year Program**  
The two-year program consists of the advanced course, preceded by a four-week summer ROTC basic course at Ft. Knox, Kentucky. Veterans or students who have participated in three years of Junior ROTC or Civil Air Patrol may be eligible to enroll in the advanced course without attendance at basic camp or completion of the basic course. Inquiries on advanced placement should be directed to the Department of Military Science. Advanced course students must obtain permission from the Professor of Military Science (PMS).

### Scholarship Programs

Four-year college scholarships are available to high school seniors, who should apply before December 1 of their senior year.

Competition for 2nd and 3rd year scholarships are open to all students, regardless of academic major and whether or not they are currently enrolled in ROTC. Scholarship students receive tuition and lab fees, a book allowance, and an allowance of \$300-\$500 per month during the academic year. For more information about scholarships, contact the Enrollment/Scholarship officer at 303-492-3549.

### Simultaneous Membership Program

Students currently in the Army Reserves or Army National Guard and entering the second year of the basic course or the advanced course may participate in the Simultaneous Membership Program (SMP). Students participating in this program earn approximately \$240 in monthly drill pay in addition to the \$350-\$500 monthly stipend. Additionally, SMP participants may be eligible for Army National Guard or reserve education benefits that provide up to \$4,500 per year tuition assistance.

**Leadership Laboratories.** All students participate in a leadership laboratory one day per week. These three hour periods provide cadets with practical leadership experience and performance-oriented, hands-on instruction outside the classroom. Leadership labs are compulsory for enrolled cadets.

### AROTC Course Credit

Army ROTC serves as elective credit in most departments. Exact course credit will be determined by the individual academic advisor.

### Registration

Students who wish to register for Army ROTC classes (MILR prefix) sign up at MSU Denver through the normal course registration process. For more information, contact the AROTC office at MSU Denver, 303-615-2050, or contact the AROTC Enrollment and Scholarship officer at 303-492-3459/303-492-6495 (main), email [arotc@colorado.edu](mailto:arotc@colorado.edu), or visit the website [msudenver.edu/arotc](http://msudenver.edu/arotc).

### Military Leadership Minor

The minor in Military Leadership is available for students who are enrolled in the Reserve Officer Training Corps (ROTC) for the Army. The requirements for the minor mirror the required courses for the ROTC program and will meet the requirement in certain majors to complete a minor. Students interested in pursuing the Military Leadership minor but not currently enrolled in the ROTC program through the Army should consult with the ROTC program office about this possibility.

A grade of "C" or better is required for each course in this program.

### Required Courses

- MILR 1011 - Adventures in Leadership I **Credits: 2**
- MILR 1021 - Adventures in Leadership II **Credits: 2**

- MILR 2031 - Methods of Leadership and Management I **Credits:** 3
- MILR 2041 - Methods of Leadership and Management II **Credits:** 3
- MILR 3052 - Military Operations and Training I **Credits:** 3
- MILR 3062 - Military Operations and Training II **Credits:** 3
- MILR 4072 - Adaptive Leadership **Credits:** 3
- MILR 4082 - Leadership in a Complex World **Credits:** 3

**Subtotal: 22 credits**

## Elective History Course

Army ROTC also requires a military history course. Check with the program officer to verify that the course you select meets the requirement. The following 3-credit hour courses are pre-approved:

- HIS 1210 - American History to 1865 **Credits:** 3
- HIS 1220 - American History since 1865 **Credits:** 3
- HIS 3410 - American Colonial History **Credits:** 3
- HIS 3430 - American Revolution and Early National Period, 1763-1848 **Credits:** 3
- HIS 3520 - Civil War and Reconstruction **Credits:** 3
- HIS 3660 - Recent U.S. 1945-1990s **Credits:** 3
- HIS 3690 - American Military History **Credits:** 3

## Military Science (Army ROTC) Standard Four-Year Program

The Basic Course taken during the Freshman and Sophomore years is designed to introduce students to the Army. A variety of subjects such as first aid, land navigation and military history are covered. Junior and Senior students participate in Advanced Course classes and focus on leadership, Army doctrine, and the transition from student/cadet to Lieutenant. All students participate in a leadership laboratory one day per week. Completion of a six-week summer camp, usually between the junior and senior years, is required.

For further information, visit the Military Science (Army ROTC) Department page.

## Required Courses

- MILR 1011 - Adventures in Leadership I **Credits:** 2
- MILR 1021 - Adventures in Leadership II **Credits:** 2
- MILR 2031 - Methods of Leadership and Management I **Credits:** 3
- MILR 2041 - Methods of Leadership and Management II **Credits:** 3
- MILR 3052 - Military Operations and Training I **Credits:** 3
- MILR 3062 - Military Operations and Training II **Credits:** 3
- MILR 4072 - Adaptive Leadership **Credits:** 3
- MILR 4082 - Leadership in a Complex World **Credits:** 3

## Military Science (Army ROTC) Standard Two-Year Program

Under this program students may enter the Advanced Course during their Junior year without participating in the Basic Course. They receive credit for the Basic Course by attending a five-week summer camp between their Sophomore and Junior years or receive credit for prior military experience.

For further information, visit the Military Science (Army ROTC) Department page.

## Required Courses

- MILR 3052 - Military Operations and Training I **Credits:** 3
- MILR 3062 - Military Operations and Training II **Credits:** 3
- MILR 4072 - Adaptive Leadership **Credits:** 3
- MILR 4082 - Leadership in a Complex World **Credits:** 3

## Department of Aviation and Aerospace Science

The mission of the Department of Aviation and Aerospace Science (AVS) is to provide students seeking careers in aviation and aerospace with a high-quality education through excellence in teaching. The AVS Department is dedicated to developing graduates with the intellectual and practical skills needed to compete and succeed in their chosen professions. Colorado is a center for innovation in aviation and aerospace, focused, in particular, on the development of new types of aircraft and in the development of commercial space applications. Ongoing close contacts with the many aviation and aerospace businesses and entities in Colorado provide employment, cooperative education, and internship opportunities for students and graduates.

## Degree Programs and Concentrations

The AVS Department fulfills its mission by offering the following Bachelor of Science (B.S.) degrees:

- [Aviation and Aerospace Management \(AAM\) Major, B.S.](#)
- [Aviation and Aerospace Science \(ASC\) Major, B.S.](#)

**Aviation and Aerospace Management** is for students interested in the management of aviation businesses, such as fixed base operators (FBOs), airports, airlines, or aerospace-related industries. Students selecting this degree must also complete a minor in the School of Business.

**Aviation and Aerospace Science** degree requires students to choose from one of three concentrations:

- **Professional Flight Officer**, for students seeking a career as a professional pilot.
- **Aviation and Aerospace Operations**, for students seeking career opportunities in aviation or aerospace operations, systems integration, or logistical planning. This degree also

supports careers that integrate commercial venues of aerospace with aviation.

- **Air Traffic Collegiate Training Initiative (AT-CTI)**, for students seeking careers as FAA air traffic controllers. Students selecting this concentration must also complete a non-AES minor with the exception that if they hold an A & P certificate, they may select the Airframe and Powerplant Mechanic minor.

## Minors and Certificates

- [Aviation Management](#)
- [Aviation Technology](#)
- [Airport Management Certificate](#)
- [Space Commercialization Certificate](#)
- [Unmanned Aircraft Systems Certificate](#)

The minors are designed to afford majors in other disciplines the opportunity to develop an understanding of the aviation and aerospace industries. AVS majors may not elect the Aviation Management or Aviation Technology minors. All courses taken to satisfy minor requirements must be completed with a grade of "C-" or better.

Certificate programs in Airport Management and Space Commercialization are also offered. Students must complete each course in the certificate programs with a grade of "C-" or better.

In both of the above cases, while a "C-" is acceptable as a final course grade, students are reminded that an overall GPA of 2.0 or greater is required for graduation.

Students holding an FAA Airframe and Powerplant (A&P) or an FAA Aircraft Dispatcher certificate may be awarded transfer credit toward the Bachelor of Science degree: 12 semester hours for the A&P certificate and 6 semester hours for the Aircraft Dispatcher certificate. Any student seeking such credit must provide a copy of the appropriate FAA certificate with the application for credit to the Aviation and Aerospace Science Department. (Note: Courses leading to Airframe and Powerplant certification are not offered by MSU Denver.)

The Airframe and Powerplant Mechanics Minor has been discontinued as of 2016-2017.

## World Indoor Airport Laboratories (WIA)

The Department of Aviation and Aerospace Science facilities include a unique blend of simulation laboratories used for Advanced Aviation & Aerospace flight training, FAA AT-CTI training, and Human Factors & Usability analyses. These integrated flight and air traffic control simulator labs feature a variety of FAA-approved flight training devices and computer-based software. In addition, a crew resource management laboratory, flight planning station, and student computer tutorial laboratory are also included in the WIA.

*Please note that the Transportation Security Administration (TSA) requires that all AVS students enrolled in flight simulator courses present evidence of U.S. citizenship in the form of a U.S. passport,*

*naturalization certificate, original birth certificate, government photo ID, or another form of documentation. Students who are not U.S. citizens must register with the TSA. See the AVS Department for more information.*

## Air Traffic Collegiate Training Initiative (AT-CTI)

MSU Denver's Aviation and Aerospace Science Department is an FAA-designated AT-CTI Program, part of the FAA Collegiate Training Initiative, which provides a foundation to a career as an FAA air traffic controller. While AT-CTI graduates are not guaranteed employment with the FAA. FAA hiring requirements include:

1. Holding U.S. citizenship;
2. Attaining a score of 70% or above on the FAA Air Traffic Selection and Training (AT-SAT) test battery;
3. Being less than 31 years of age upon receiving a tentative offer of employment from the FAA;
4. Meeting FAA medical, security, and suitability requirements;
5. Successfully completing an interview to determine whether the candidate possesses the personal characteristics needed for air traffic control work; and
6. Being able to speak English clearly enough to be understood over radios, intercoms, and similar communications equipment

Please email Professor Kevin Kuhlmann at [kuhlmann@msudenver.edu](mailto:kuhlmann@msudenver.edu) with any questions or requests regarding these requirements.

Completing MSU Denver's AT-CTI Program, or passing the AT-SAT test battery does not guarantee an employment offer from the FAA. For the courses required by the AT-CTI program see AT-CTI program requirements.

## Flight Training

Flight training is arranged by the student independent of the AVS Department. Aviation and Aerospace Science students may obtain their FAA flight certificates and ratings from any FAA training program under FAR Part 61, 141, or 142, and submit the certificates to the AVS Department before graduation. The cost of flight training is in addition to regular tuition and other university fees. This cost varies depending upon how frequently a student is able to fly and the time required to become proficient.

## Flight Courses and Financial Aid

Students who wish to obtain additional financial aid for flight training should consult with the Financial Aid office and AVS for permission to enroll in any flight course (AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530, and AES 4550). Flight courses are graded as Satisfactory or Unsatisfactory and cannot be used as electives for any concentration. These courses cannot be certified for veterans benefits.

## Credit for FAA Certificates and Ratings or Prior Aviation Experience

Students enrolling in AVS programs who already have flight certificates, ratings, or other aviation experience have several options:

1. Those in possession of FAA certificates or ratings prior to enrollment may substitute, with the approval of the AVS Department, more advanced AVS courses for the basic required courses pertaining to the certificates or ratings held. Please contact the AVS Department for further details.
2. Incoming students with a record of aviation-related employment may apply to receive academic credit for their job experience by submitting a "prior learning portfolio" to the Center for Individualized Learning. The charge for each awarded credit hour is one-half the normal in-state tuition. (See the Alternative Credit Options in the University catalog for additional information.)

Students may also choose to complete a personalized degree program through the Center for Individualized Learning. This option provides an opportunity to design a major or minor program to satisfy specific educational goals not met by existing AVS programs. (See Special Academic Programs in the University catalog.)

## Bachelor of Science Degree Requirements

All students must complete the 34 semester hours of General Studies specified by the AVS Department. The Department of Aviation and Aerospace Science curriculum guide, available in the AVS Department office, SS 102, lists required General Studies courses, each degree program with a recommended course sequence, and AVS policies and procedures. Students should schedule an advising session with an AVS faculty member early in their first semester in the AVS Department and each semester thereafter.

A grade of at least "C-" is required in all upper division courses listed as part of the major, whether or not they are AES courses, including electives. This requirement does not apply to General Studies classes. Students are reminded that while a "C-" may be acceptable as a final course grade, an overall GPA of 2.0 or greater is required for graduation.

## General Studies Required Courses

Refer to the degree program guidelines for specific General Studies requirements.

## Approved AES Electives

An "Approved AES Elective" may be any AES course not required in a concentration with the exception of these flight courses: AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530, and AES 4550. These courses cannot be certified for veterans benefits.

## Airport Management Certificate

This certificate will prepare a student for the American Association of Airport Executives (AAAE) Certified Member examination, often required for airport management positions.

## Required Courses:

- AES 3220 - Aviation and Aerospace Law **Credits: 3**  
or
- AES 3230 - Airline Management **Credits: 3**  
or
- AES 3240 - Airline Planning **Credits: 3**
  
- AES 3880 - Aviation Security **Credits: 3**
- AES 4230 - General and Business Aviation Operations **Credits: 3**
- AES 4200 - Airport Planning and Management I **Credits: 3**
- AES 4210 - Airport Planning and Management II **Credits: 3**
- AES 4870 - Aviation Safety Program Management **Credits: 3**

Total: 18

## Aviation and Aerospace Management (AAM) Major, B.S.

[Department of Aviation and Aerospace Science](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [Online](#), [In-Person](#),  
[Hybrid](#)

## About the Program

The AAM program is designed for those seeking career opportunities in airport management, airline management, corporate aviation, or general aviation. This degree also supports careers that integrate the business venues of aerospace and space commercialization with many areas of management in aeronautics. This degree program integrates coursework from the aviation curriculum with a business minor to prepare the graduate for aviation and aerospace business-administration related professions.

All students must complete 33 semester hours of General Studies. Some General Studies courses are required by the major, so students would benefit from taking those courses for their General Studies courses. The Aviation and Aerospace Science curriculum guide, available in the AVS Department office, SS 102, lists recommended General Studies courses, each degree program with a recommended course sequence, and AVS policies and procedures. Students should schedule an advising session with an AVS faculty member early in their first semester in the department and each semester thereafter.

## Student Outcomes

- Demonstrate comprehension of the flight environment.
- Apply airport management and planning principles including regulatory and grant assurance compliance, and airport safety inspections; distinguish airport layout plans and airport master plans; apply airport and airfield planning processes related to the design aircraft, terminal expansion and overall airport development; construct an air service development strategy.
- Develop comprehensive safety programs utilizing the principles of Safety Management Systems and demonstrate how to implement incident command within the airport or airline environment.
- Demonstrate knowledge, skills and critical thinking abilities on current topics related to aviation and aerospace science, including analytical and interpretive abilities related to the airport management knowledge-base.

- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of D- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. Minor selected from College of Business offerings.
- A grade of "C-" or better is required in all upper division courses listed as part of the major, whether or not they are AES prefixed courses, including electives. Students should note that programs differ in the minimum grade required. This requirement does not apply to General Studies classes.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)

## Required Courses: 58 credits

- AES 1040 - Introduction to Unmanned Aircraft Systems **Credits: 3**  
or
- AES 1050 - Introduction to Space **Credits: 3**
- AES 1100 - Aviation Fundamentals **Credits: 4**
- AES 1400 - Aviation Weather **Credits: 3**
- AES 2050 - Aviation and Aerospace History and Development **Credits: 3**  
or
- AES 2607 - Introduction to Aerospace Systems Simulation **Credits: 3**
- AES 2220 - Flight Dispatch and Load Planning **Credits: 3**
- AES 3220 - Aviation and Aerospace Law **Credits: 3**
- AES 3230 - Airline Management **Credits: 3**
- AES 3240 - Airline Planning **Credits: 3**
- AES 3600 - Space Flight Operations I **Credits: 3**
- AES 3850 - Human Factors and Physiology of Flight **Credits: 3**
- AES 3880 - Aviation Security **Credits: 3**
- AES 4200 - Airport Planning and Management I **Credits: 3**
- AES 4210 - Airport Planning and Management II **Credits: 3**
- AES 4230 - General and Business Aviation Operations **Credits: 3**
- AES 4240 - Air Cargo Industry **Credits: 3**
- AES 4601 - Space Flight Operations II **Credits: 3**
- AES 4602 - Aerospace Commercialized Operations **Credits: 3**
- AES 3620 - Aerospace Systems Project and Mission Scheduling **Credits: 3**  
or

- AES 4603 - Aerospace Operations Systems Analysis and Design **Credits: 3**
- AES 4870 - Aviation Safety Program Management **Credits: 3**

### Senior Experience: 3 credits

- AES 4910 - Aviation and Aerospace Strategic Planning **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	58 credits
Senior Experience	3 credits
Required College of Business Major and Unrestricted Electives	23-26 credits
<b>Total for the Aviation and Aerospace Management Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Aviation and Aerospace Science (ASC) Major, B.S.

[Department of Aviation and Aerospace Science](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

All students must complete 33 semester hours of General Studies. Some General Studies courses are required by the major, so students would benefit from taking those courses for their General Studies courses. The Aviation and Aerospace Science curriculum guide, available in the AVS Department office, SS 102, lists recommended General Studies courses, each degree program with a recommended course sequence, and AVS policies and procedures. Students should schedule an advising session with an AVS faculty member early in their first semester in the department and each semester thereafter.

### Student Outcomes

- Demonstrate comprehension of the flight environment, including weather for VFR and IFR ops, airspace operations, navigation and positional awareness, and the

variety of digital and physical flight resources and publications.

- Describe and explain aircraft performance, with respect to atmospheric conditions, aircraft capabilities, and resource and risk management including human factors, decision making, and situational awareness.
- Summarize aviation security strategies and implementations applied to airport and airline operations.
- Identify and summarize domain-accepted principles and practices, procedural methods, and industry standards germane to establishing a professional flight foundation.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of D- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- A grade of "C-" or better is required in all upper division courses listed as part of the major, whether or not they are AES prefixed courses, including electives. Students should note that programs differ in the minimum grade required. This requirement does not apply to General Studies classes.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and

*humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Aerospace Operations Concentration (ASC1): 62 credits

This concentration is designed for those seeking career opportunities in aviation or aerospace operations, systems integration, or logistical planning. This degree also supports careers that integrate commercial venues of aerospace with aviation.

### Required Courses: 59 credits

- AES 1040 - Introduction to Unmanned Aircraft Systems **Credits: 3**  
or
- AES 1050 - Introduction to Space **Credits: 3**
- AES 1100 - Aviation Fundamentals **Credits: 4**
- AES 1400 - Aviation Weather **Credits: 3**
- AES 1710 - Instrument Flight Simulation I **Credits: 3**
- AES 2050 - Aviation and Aerospace History and Development **Credits: 3**
- AES 2200 - Fundamentals of Air Traffic Control **Credits: 4**
- AES 2220 - Flight Dispatch and Load Planning **Credits: 3**
- AES 2607 - Introduction to Aerospace Systems Simulation **Credits: 3**
- AES 2630 - Spacecraft Mission Operations I **Credits: 3**
- AES 3600 - Space Flight Operations I **Credits: 3**
- AES 3850 - Human Factors and Physiology of Flight **Credits: 3**
- AES 3880 - Aviation Security **Credits: 3**
- AES 4200 - Airport Planning and Management I **Credits: 3**
- AES 4601 - Space Flight Operations II **Credits: 3**
- AES 4602 - Aerospace Commercialized Operations **Credits: 3**  
or
- AES 4210 - Airport Planning and Management II **Credits: 3**
- AES 3620 - Aerospace Systems Project and Mission Scheduling **Credits: 3**  
or

- AES 3630 - Spacecraft Mission Operations II **Credits: 3**  
or
- AES 4603 - Aerospace Operations Systems Analysis and Design **Credits: 3**
- AES 4860 - Aviation Safety **Credits: 3**  
or
- AES 4870 - Aviation Safety Program Management **Credits: 3**
- AES 4910 - Aviation and Aerospace Strategic Planning **Credits: 3**
- BUS 1950 - Business Communication **Credits: 3**  
or
- JMP 2610 - Introduction to Technical Writing **Credits: 3**

### ASC1 Senior Experience: 3 credits

- AES 4930 - Professional Flight Standards Seminar **Credits: 3**  
or
- JMP 4790 - Senior Seminar **Credits: 3**

## Professional Flight Officer Concentration (ASC2): 78 credits

Professional Flight Officer (ASC2): This concentration is designed for those planning a career as a professional pilot. A student choosing this concentration must have an FAA Commercial Pilot Certificate with an Instrument Rating and either the FAA Flight Instructor Certificate (CFI) or the FAA Advanced Ground Instructor (AGI) and Instrument Instructor Certificates (IGI) before graduation. (For the Lighter-than-Air category, a student must have the Advanced Ground Instructor Certificate.) Before enrolling in this concentration, ensure that you can obtain the appropriate FAA medical certificate. For a list of FAA medical examiners, see <http://www.faa.gov/pilots/amelocator/>.

### Required Courses: 75 credits

- AES 1040 - Introduction to Unmanned Aircraft Systems **Credits: 3**  
or
- AES 2050 - Aviation and Aerospace History and Development **Credits: 3**
- AES 1100 - Aviation Fundamentals **Credits: 4**
- AES 1400 - Aviation Weather **Credits: 3**
- AES 1500 - Private Pilot Flight Lab **Credits: 2**
- AES 1710 - Instrument Flight Simulation I **Credits: 3**
- AES 2120 - Instrument Fundamentals **Credits: 4**
- AES 2130 - Commercial Flight Operations **Credits: 3**

- AES 2200 - Fundamentals of Air Traffic Control **Credits:** 4
- AES 2220 - Flight Dispatch and Load Planning **Credits:** 3
- AES 2500 - Instrument Pilot Flight Lab **Credits:** 2
- AES 2710 - Instrument Flight Simulation II **Credits:** 3
- AES 3000 - Aircraft Systems and Propulsion **Credits:** 3
- AES 3520 - Commercial Single-Engine Flight Lab **Credits:** 2
- AES 3530 - Aerodynamics **Credits:** 3
- AES 3650 - Advanced Flight Technologies **Credits:** 3
- AES 3710 - Multi-Engine Flight Simulation I **Credits:** 3
- AES 3850 - Human Factors and Physiology of Flight **Credits:** 3
- AES 3880 - Aviation Security **Credits:** 3
- AES 4040 - Aircraft Performance **Credits:** 3
- AES 4370 - Advanced Navigation Systems **Credits:** 3
- AES 4500 - Commercial Multi-Engine Flight Lab **Credits:** 2  
or
- AES 4510 - Flight Instructor Flight Lab **Credits:** 2
- AES 4540 - FAA Instructor Certification-Ground School **Credits:** 3
- AES 4710 - Turboprop Flight Simulation **Credits:** 4  
or
- AES 4935 - Advanced Commercial Aircraft Systems **Credits:** 4
- AES 4860 - Aviation Safety **Credits:** 3
- AES 4910 - Aviation and Aerospace Strategic Planning **Credits:** 3
- Required Professional Pilot Documentation

### ASC2 Senior Experience: 3 credits

- AES 4930 - Professional Flight Standards Seminar **Credits:** 3

### Air Traffic Collegiate Training Initiative (AT-CTI) Concentration (ASC3): 42 credits

Air Traffic Collegiate Training Initiative (FAA AT-CTI) (ASC3): The Air Traffic Collegiate Training Initiative concentration (ASC3), also known as the AT-CTI program, has been designed through a partnership with the Federal Aviation Administration (FAA) in order to provide a foundation for students interested in becoming FAA air traffic control specialists. MSU Denver is one of only 36 higher education institutions across the country designated by the FAA as part of its Collegiate Training Initiative and is an FAA-approved AT-CTI program. Weather, airspace, teamwork in aviation, navigation, and search and rescue are among the fundamentals covered in this course of study.

### Required Courses: 39 credits

- AES 1100 - Aviation Fundamentals **Credits:** 4
- AES 1400 - Aviation Weather **Credits:** 3
- AES 1710 - Instrument Flight Simulation I **Credits:** 3
- AES 2120 - Instrument Fundamentals **Credits:** 4
- AES 2130 - Commercial Flight Operations **Credits:** 3
- AES 2200 - Fundamentals of Air Traffic Control **Credits:** 4
- AES 2710 - Instrument Flight Simulation II **Credits:** 3
- AES 3880 - Aviation Security **Credits:** 3
- AES 4100 - Advanced Air Traffic Control **Credits:** 3
- AES 4370 - Advanced Navigation Systems **Credits:** 3
- AES 4860 - Aviation Safety **Credits:** 3  
or
- AES 4870 - Aviation Safety Program Management **Credits:** 3
- AES 4910 - Aviation and Aerospace Strategic Planning **Credits:** 3

### ASC3 Senior Experience: 3 credits

- AES 4210 - Airport Planning and Management II **Credits:** 3 \*  
or
- AES 4930 - Professional Flight Standards Seminar **Credits:** 3  
or
- JMP 4790 - Senior Seminar **Credits:** 3

\* Requires completion of AES 4200 Airport Planning and Management I

### Summary of Requirements

<b>Aerospace Operations Concentration (ASC1)</b>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	59 credits
Senior Experience	3 credits
Unrestricted Electives	22-25 credits
<b>Professional Flight Officer Concentration (ASC2)</b>	
General Studies	33 credits
Multicultural Requirement	0-3 credits
Required Courses	75 credits
Senior Experience	3 credits
Unrestricted Electives	6-9 credits

<b>Air Traffic Collegiate Training Initiative (AT-CTI) Concentration (ASC3)</b>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	39 credits
AES Electives	24 credits
Senior Experience	3 credits
Unrestricted Electives	18-21 credits
<b>Total for the Aviation and Aerospace Science Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Aviation Management Minor

### Required Courses

- AES 1100 - Aviation Fundamentals **Credits: 4**
- AES 3220 - Aviation and Aerospace Law **Credits: 3**

**Subtotal: 9**

Plus 12 semester hours selected from:

- AES 3230 - Airline Management **Credits: 3**
- AES 3240 - Airline Planning **Credits: 3**
- AES 3850 - Human Factors and Physiology of Flight **Credits: 3**
- AES 4200 - Airport Planning and Management I **Credits: 3**
- AES 4210 - Airport Planning and Management II **Credits: 3**
- AES 4230 - General and Business Aviation Operations **Credits: 3**
- AES 4240 - Air Cargo Industry **Credits: 3**
- AES 4870 - Aviation Safety Program Management **Credits: 3**
- AES 4910 - Aviation and Aerospace Strategic Planning **Credits: 3**

**Subtotal: 12**

**Total: 21**

## Aviation Technology Minor

A student must possess at least an FAA Private Pilot Certificate before graduation. Documentation of this certification must be provided by the student to the AVS Department.

## Required Courses

- AES 1100 - Aviation Fundamentals **Credits: 4**
- AES 1400 - Aviation Weather **Credits: 3**
- AES 1710 - Instrument Flight Simulation I **Credits: 3**

**Subtotal: 12**

## AES Approved Electives

Students must select 9 credits of AES Approved Electives (3 credits must be upper division)

**Subtotal: 9**

**Total for Minor: 21**

## Space Commercialization Certificate

This certificate will provide increased knowledge and understanding of skills as related to the commercial space industry as an important and expanding part of the Colorado and national economy. All courses within this certificate can be applied toward the completion of any major in the Department of Aviation and Aerospace Science.

### Required Courses

- AES 2607 - Introduction to Aerospace Systems Simulation **Credits: 3**  
or
- AES 3620 - Aerospace Systems Project and Mission Scheduling **Credits: 3**
- AES 3600 - Space Flight Operations I **Credits: 3**
- AES 4601 - Space Flight Operations II **Credits: 3**
- AES 4602 - Aerospace Commercialized Operations **Credits: 3**
- AES 4603 - Aerospace Operations Systems Analysis and Design **Credits: 3**

**Total: 15**

*Notes: Students must complete each course in the certificate program with a "C" or better. The courses cannot be taken pass/fail.*

## Spacecraft Flight Operations Certificate

This certificate prepares the student with a strong foundation in specialized training for career development in the space and aerospace industry as a Spacecraft Mission and Flight Operations Specialist. It also expands opportunities for those currently employed in the industry seeking a stronger understanding of spacecraft operations command and control operations through an applied approach utilizing specialized laboratory and scenario training resources in ground segments, flight dynamics, satellite

communication, mission planning and modeling, and space environment factors.

## Required Courses

- AES 2607 - Introduction to Aerospace Systems Simulation **Credits: 3**
- AES 2630 - Spacecraft Mission Operations I **Credits: 3**
- AES 3600 - Space Flight Operations I **Credits: 3**
- AES 3630 - Spacecraft Mission Operations II **Credits: 3**
- AES 4601 - Space Flight Operations II **Credits: 3**
  
- AES 3607 - Orbital Mechanics and Aerospace Systems Simulations **Credits: 3**  
or
- AES 3610 - Elements of Spacecraft Design I **Credits: 3**  
or
- AES 4603 - Aerospace Operations Systems Analysis and Design **Credits: 3**

Total Credit Hours: 18

## Unmanned Aircraft Systems Certificate

This certificate prepares the student with a strong foundation for career development in the commercial unmanned aerial systems industry as a 14 CFR Part 107 Remote Pilot. It also expands opportunities for those currently employed in the industry seeking a better understanding of how to leverage and manage UAS-based resources for enhancing commerce and exploring new entrepreneurial opportunities. A student must possess the FAA Part 107 Remote Pilot Certificate before graduation with this certificate.

Students seeking the Unmanned Aircraft Systems Certificate must earn a grade of "C" or better for each class required in the program.

## Certificate Requirements

- AES 1040 - Introduction to Unmanned Aircraft Systems **Credits: 3**
- AES 2040 - Unmanned Aircraft Systems Flight and Control **Credits: 4**
- AES 3040 - Unmanned Aircraft Systems Data Collection and Analysis **Credits: 4**
- AES 3980 - Internship in Aviation and Aerospace Science **Credits: 1-15**
- Note: A total of 3 credit hours (minimum) of internship is required.
- FAA Part 107 Remote Pilot Certificate
- AES Approved Elective **Credits: 3**

Total Credit Hours: 15

## Department of Computer Sciences

The Department of Computer Sciences offers a bachelor of science degree in computer science. The department also offers minors in computer science and computer security. These minors complement majors such as engineering technology and mathematics.

## Academic Programs

- [Computer Science Major, B.S.](#)
- [Computer Science Minor](#)
- [Computer Security Minor](#)

The degree program in computer science adheres to nationally recognized standards and is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET).

### Non-Major Courses in Computer Science

The department offers courses as Computer Science Studies (CSS) that do not count toward a major in computer science. Some of the courses count toward majors in other programs, such as the interdisciplinary Cybersecurity Major, B.S.. The Computer Science Studies courses are on topics appropriate to computer science but focused on practical expertise.

## Computer Science Major, B.S.

[Department of Computer Sciences](#)

Available Program Format(s): [In-Person](#)

[College of Health and Applied Sciences](#)

## About the Program

The Department of Mathematical and Computer Sciences offers coursework leading to the Bachelor of Science (B.S.) degree in Computer Science. The Computer Science major provides students with broad-based preparation in Computer Science with the appropriate supporting Mathematics background. Graduates in Computer Science are positioned for employment in a wide variety of jobs in the computing field. The CS major also prepares students for continued study of Computer Science at the graduate level. Students are encouraged to contact the department for further details (303-615-0399). The Computer Science BS degree program is accredited by the Computing Accreditation Commission of ABET, <http://abet.org>.

## Student Outcomes

1. Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.

4. Recognize professional responsibilities and make informed judgments in computing practices based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required in all CS courses included in the major, all ancillary courses, all required mathematics courses, and all science courses for the science requirement. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Some of the science, mathematics, and ancillary courses required for the CS major may partially or fully satisfy specific General Studies requirements.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

## Required Mathematics Courses: 12 credits

- MTH 1410 - Calculus I **Credits: 4**
- MTH 3130 - Applied Methods in Linear Algebra **Credits: 4**
- MTH 3210 - Probability and Statistics **Credits: 4**

(MTH 3140 may be substituted for MTH 3130.)

## Science Requirement: 6 credits

A total of at least 6 credits of the following departmentally approved science courses.

Must include one of the following science sequences. Additional science course(s) may be chosen from the courses listed below, or ENV 1200.

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**  
or
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1091 - General Biology Laboratory II **Credits: 1**  
or
- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**  
or
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**  
or
- GEL 1010 - Physical Geology **Credits: 4**  
or
- MTR 1400 - Weather and Climate **Credits: 3**
- MTR 2020 - Weather and Climate Lab for Scientists **Credits: 1**  
or
- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**  
or
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**

## Required Ancillary Courses: 9 credits

## Professional Presentation Requirement: 3 credits

- COMM 1010 - Presentational Speaking **Credits: 3**

or

- COMM 1100 - Fundamentals of Oral Communication  
**Credits: 3**

### Technical Writing Requirement: 3 credits

- JMP 2610 - Introduction to Technical Writing **Credits: 3**

### Computer Science Ethics Requirement: 3 credits

- PHI 3370 - Computers, Ethics, and Society **Credits: 3**

### Required Computer Science Courses: 58 credits

### Major Core Courses: 42 credits

- CS 1030 - Computer Science Principles **Credits: 4**
- CS 1050 - Computer Science 1 **Credits: 4**
- CS 1400 - Computer Organization 1 **Credits: 4**
- CS 2050 - Computer Science 2 **Credits: 4**
- CS 2240 - Discrete Structures for Computer Science  
**Credits: 4**
- CS 2400 - Computer Organization 2 **Credits: 4**
- CS 3210 - Principles of Programming Languages **Credits: 4**
- CS 3240 - Introduction to the Theory of Computation  
**Credits: 2**
- CS 3250 - Software Development Methods and Tools  
**Credits: 4**
- CS 3600 - Operating Systems **Credits: 4**
- CS 4050 - Algorithms and Algorithm Analysis **Credits: 4**

### Upper Division Electives: 12 credits

A minimum of 12 additional semester hours selected from upper-division CS courses and MTH 4480.

### Senior Experience: 4 credits

- CS 4260 - Software Engineering Practices **Credits: 4**  
or
- CS 4360 - Senior Experience in Computer Science  
**Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Mathematics Courses	12 credits
Science Requirement	6 credits
Professional Presentation Requirement	3 credits

Technical Writing Requirement	3 credits
Computer Science Ethics Requirement	3 credits
Required Major Core Courses	42 credits
Major Upper Division Electives	12 credits
Senior Experience	4 credits
Unrestricted Electives	0-14 credits
<b>Total for the Computer Science Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Note

As an alternative to the B.S. degree program, the Department of Computer Sciences works with the Center for Individualized Learning to provide students with programs customized to their educational needs.

### Computer Science Minor

The Department of Computer Sciences offers coursework leading to the Minor in Computer Science. This program prepares students to add computer science knowledge to their major field of study. A grade of "C-" or better is required in each course included in the minor. Students should note that programs differ in the minimum grade required.

### Required Core Courses:

- CS 1050 - Computer Science 1 **Credits: 4**
- CS 2050 - Computer Science 2 **Credits: 4**

### Electives:

A minimum of 12 semester hours chosen from CS 1030, CS 1400, CS 2400, CS 2240, and upper-division CS courses, a minimum of 4 semester hours of which must be upper division CS course(s).

### Total: 20 credits

### Computer Security Minor

This program prepares students to add computer security knowledge to their major field of study. A grade of "C" or better is required in each course included in the minor. Students should note that programs differ in the minimum grade required.

### Required Courses

- CSS 2751 - Principles of Cybersecurity **Credits: 3**

- CSS 2752 - Information Assurance **Credits: 3**
- CSS 2753 - Network Security **Credits: 3**
- CSS 2754 - Host Security **Credits: 3**
- CSS 3751 - Application Security **Credits: 3**
- CSS 3752 - Computer Forensics **Credits: 3**

Total: 18 credit hours

## Department of Criminal Justice and Criminology

The present and future needs of U.S. society require greater numbers of highly educated people in criminal justice agencies at all levels of government. Criminal justice employers demand applicants who have had professional education. There is considerable interest among criminal justice practitioners to increase professionalism through education. The curriculum provides quality criminal justice education and prepares students interested in the study of police, law enforcement, probation and parole, corrections, juvenile agency work, criminal justice administration, and private/corporate security. Course offerings within these professional fields are related to other programs at the University, including human services, business, and the social sciences.

### Academic Programs

- [Criminal Justice and Criminology Major, B.S.](#)
- [Criminal Justice and Criminology Minor](#)
- [Cybersecurity Major, B.S.](#)

### Criminal Justice and Criminology Major, B.S.

[Department of Criminal Justice and Criminology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Bachelor of Science in Criminal Justice and Criminology offers an academic degree with a foundation in the liberal arts and social sciences. The mission of the program is to engage students in the scientific study of crime, criminality, other forms of social deviance, and the official response to crime by law enforcement, the court systems, and correctional systems. To that end, the department seeks to prepare students for criminal justice careers or post graduate work as liberally educated, intellectually mature, ethically aware, and culturally sensitive people. Recognizing that many students have completed coursework at the community college and already work in the criminal justice field, the department structures its curriculum to assist transfer students and adult working students. The department engages in Statewide Transfer Articulation Agreements with a number community colleges through the Colorado Department of Higher Education.

### Student Outcomes

The learning outcomes for the program are as follows:

1. Demonstrate proficiency in law enforcement through exhibiting a fundamental understanding of history, theory, practice and legal environment, police organization, discretion, and subculture.
2. Demonstrate proficiency in corrections through exhibiting a fundamental understanding of the development of correctional philosophy, incarceration, diversions, community-based corrections, and treatment of offenders.
3. Demonstrate proficiency in law adjudication through exhibiting a fundamental understanding of criminal law, criminal procedures, prosecution, defense, as well as court procedures and decision-making.
4. Demonstrate proficiency in criminology theory through exhibiting a fundamental understanding of the nature and causes of crime, social control mechanisms, typologies, offenders, and victims.
5. Demonstrate proficiency in research and analytic methods through exhibiting a fundamental understanding of quantitative (including statistics) and qualitative methods for conducting and analyzing criminal justice research.
6. Demonstrate proficiency in written and oral communication to a variety of audiences.
7. Be able to employ ethical perspectives and critical thinking in applying their newly acquired knowledge base to related problems and changing fact situations.
8. Be able to identify the effects of the criminal justice system on the lives of individuals and communities, as well as how criminal justice practitioners face the challenges of diversity in a free society.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Ancillary Course: 3 credits

- CJC 1010 - Introduction to the Criminal Justice System **Credits: 3**

### Tier I: Core Courses: 18 credits

- CJC 1450 - Introduction to Corrections **Credits: 3**
- CJC 2020 - Research Methods and Basic Statistics for Criminal Justice Professionals **Credits: 3**
- CJC 2050 - American Judicial System **Credits: 3**
- CJC 2210 - American Policing **Credits: 3**
- CJC 3400 - Criminological Theories **Credits: 3**
- CJC 3410 - Criminal Justice and the Social Structure **Credits: 3**

### Tier II: Area Electives: 15 credits

#### Police (Choose one):

- CJC 3800 - Federal Law Enforcement **Credits: 3**
- CJC 4250 - Community Policing **Credits: 3**

#### Courts/Law (Choose one):

- CJC 2100 - Criminal Law **Credits: 3**

- CJC 3110 - Constitutional Issues in Criminal Procedure and Evidence **Credits: 3**

#### Corrections (Choose one):

- CJC 3290 - Probation and Parole **Credits: 3**
- CJC 3470 - Punishment and Society **Credits: 3**

#### Administration of Justice (Choose two):

- CJC 3130 - Victimology **Credits: 3**
- CJC 3350 - Juvenile Justice and Delinquency **Credits: 3**
- CJC 4430 - Comparative Criminal Justice **Credits: 3**
- CJC 4650 - Ethics for the Criminal Justice Professional **Credits: 3**

### Tier III: CJC General Electives: 9 credits

An additional nine hours of CJC general elective credits are required. Elective courses can include any CJC course, including Tier II electives that were not previously taken. Additionally, up to six internship credits may apply here. At least six of the nine CJC general elective credits must be upper division (3000/4000 level).

### Senior Experience: 3 credits

- CJC 4700 - Capstone Seminar in Criminal Justice and Criminology **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Ancillary Course	3 credits
Major Requirements	33 credits
Major Electives	9 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	36-42 credits
<b>Total for Criminal Justice and Criminology Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Criminal Justice and Criminology Minor

A grade of "C" or better is required for each course in this program to count toward a minor in Criminal Justice and Criminology. Students should note that programs differ in the minimum grade required.

Total required for minor: 21 credits

## Required Courses

- CJC 1010 - Introduction to the Criminal Justice System **Credits: 3**
- CJC 3400 - Criminological Theories **Credits: 3**

## Required Courses

Police (Choose One)

- CJC 3800 - Federal Law Enforcement **Credits: 3**
- CJC 4250 - Community Policing **Credits: 3**

Courts/Law (Choose One)

- CJC 2100 - Criminal Law **Credits: 3**
- CJC 3110 - Constitutional Issues in Criminal Procedure and Evidence **Credits: 3**

Corrections (Choose One)

- CJC 3290 - Probation and Parole **Credits: 3**
- CJC 3470 - Punishment and Society **Credits: 3**

Other Electives (Choose Two)

- CJC 3130 - Victimology **Credits: 3**
- CJC 3350 - Juvenile Justice and Delinquency **Credits: 3**
- CJC 3410 - Criminal Justice and the Social Structure **Credits: 3**
- CJC 4430 - Comparative Criminal Justice **Credits: 3**
- CJC 4650 - Ethics for the Criminal Justice Professional **Credits: 3**
- CYB 2001 - Cyber Laws and Regulations **Credits: 3**

## Cybersecurity Major, B.S.

[Department of Criminal Justice and Criminology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Bachelor of Sciences in Cybersecurity (CYB) is an interdisciplinary major jointly offered by the Departments of Criminal Justice and Criminology, Computer Information Systems and Business Analytics, and Mathematical and Computer Sciences. The B.S. in Cybersecurity is housed in and administered by the Department of Criminal Justice and Criminology. The B.S. in Cybersecurity prepares students with the knowledge and skills necessary to investigate computer crime, properly seize and recover computer evidence, and prevent cybercrimes as well as prosecute and punish cyber criminals.

## Student Outcomes

1. Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member, or leader, of a team engaged in activities appropriate to the program's discipline.
6. Apply security principles and practices to maintain operations in the presence of risks and threats.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** CJC 1010 - Introduction to the Criminal Justice System
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Cybersecurity Major Coursework Requirements: 54 credits

#### CYB Required Courses: 9 credits

- CYB 2001 - Cyber Laws and Regulations **Credits: 3**
- CYB 2500 - Criminal Investigation **Credits: 3**
- CYB Elective (Choose from any CYB Elective) **Credits: 3**

#### CJC Required Courses: 9 credits

- CJC 3210 - White-Collar Crime **Credits: 3**
- CJC 3420 - Organized Crime **Credits: 3**
- CJC 3800 - Federal Law Enforcement **Credits: 3**

#### CIS Required Courses: 18 credits

- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 3230 - Telecommunication Systems and Networking **Credits: 3**
- CIS 3500 - Information Systems Security **Credits: 3**
- CIS 4500 - Information Systems Security Tools and Techniques **Credits: 3**
- CIS 4550 - Information Systems Security Management and Information Assurance **Credits: 3**

#### CS Required Courses: 18 credits

- CSS 2751 - Principles of Cybersecurity **Credits: 3**
- CSS 2752 - Information Assurance **Credits: 3**
- CSS 2753 - Network Security **Credits: 3**
- CSS 2754 - Host Security **Credits: 3**
- CSS 3751 - Application Security **Credits: 3**
- CSS 3752 - Computer Forensics **Credits: 3**

### Senior Experience: 3 credits

- CYB 4990 - Capstone Seminar in Cybersecurity **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	54 credits
Senior Experience	3 credits
Unrestricted Electives	27-33 credits
<b>Total for the Cybersecurity Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Department of Engineering and Engineering Technology

**The "art" of applied science - using science to create real world solutions.**

The Department of Engineering and Engineering Technology (EAET) offers Bachelor of Science degrees in engineering and engineering technology, and Bachelor of Art degree in Construction Project Management.

Engineering is the creative application of science, mathematical methods, and empirical evidence for the benefit of humankind. Engineering technology is even more "applied" and less theoretical than engineering, though in a broad sense both have a focus on practical application.

Engineering programs focus on theory and conceptual design, while engineering technology programs usually focus on application and implementation. Engineering programs require additional, higher-level mathematics, including multiple semesters of calculus and calculus-based theoretical science courses, while engineering technology programs focus on algebra, trigonometry, applied calculus, and other courses that are more practical than theoretical in nature.

All Engineering and Engineering Technology programs provide students with a Bachelor of Science degree in corresponding disciplines. Internship and Co-op programs enable the student to combine on-the-job work experience with classroom studies. MSU Denver students graduate with an extensive engineering and engineering technology education enabling them to be valuable contributors in many industries both established and emerging. Many EAET graduates also pursue their graduate studies in various universities. Engineering and engineering technology programs at MSU Denver offer day and evening courses to accommodate working students' schedules.

Currently EAET offers three engineering programs, three engineering technology programs, and a construction project management program.

Under the revised rules and regulations of the Colorado State Board for Registration for Architects, Professional Engineers and Professional Land Surveyors, MSU Denver Engineering Technology students within 30 semester hours of graduation with a Bachelor of Science degree may take the Fundamentals of Engineering (FE) Examination. The FE is the first step of becoming a licensed Professional Engineer (PE) in the State of Colorado.

All three Engineering Technology Bachelor of Science major programs are accredited by The Technology Accreditation Commission (TAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202, Telephone (410) 347-7700, abet.org.

The Bureau of Labor Statistics (1998) wrote the following about the difference: *"In addition to the standard engineering degree, many colleges offer degrees in engineering technology, which are offered as either 2- or 4-year programs. These programs prepare students for practical design and production work rather than for jobs that require more theoretical, scientific and mathematical knowledge. Graduates of 4-year technology programs may get jobs similar to those obtained by graduates with a bachelor's degree in engineering. Some employers regard them as having skills between those of a technician and an engineer."* *"Many 4-year colleges offer bachelor's degrees in engineering technology, but graduates of these programs are often hired to work as technologists or applied engineers, not technicians."*

## Engineering Programs Offered

### Computer Engineering (CPE)

<https://www.msudenver.edu/engineering-engineering-technology/computer-engineering-major-bs/>

The Bachelor of Science in Computer Engineering is a discipline with historical foundations in computer science and electrical engineering. This major is an ideal match for students who are interested in computer hardware, integrating hardware and software, or developing software tools. Students will design and manufacture computer hardware, design and operate networks and communication systems, or design and program embedded systems found in airplane, security system, automobile, robot, appliances, phone and other smart devices, etc.

The U.S. Bureau of Labor Statistics reports that computer engineering is the fastest growing engineering discipline. Students majored in CPE are in high demand for employment after graduation. They have the option of working as hardware or software engineers, or combination of the two. And they work in almost every industry -- from health care and gaming to banking and online shopping. Typical industries hiring computer engineers include financial services, chemical companies, defense contractors, consulting, transportation, manufacturing, government, and consumer goods. Computer engineering undergraduates are also positioned to pursue graduate programs in computer science or electrical engineering or computer engineering.

### Major:

- [Computer Engineering Major, B.S.](#)

### Environmental Engineering (EVE)

<https://www.msudenver.edu/engineering-engineering-technology/environmental-engineering-major-bs/>

The Environmental Engineering program at Metropolitan State University of Denver is an interdisciplinary degree between engineering and earth and atmospheric sciences offering a customized degree tailored to the students' interest and flexible to an ever-changing job market. Students may choose to take electives in either department so they can gain practical experiences in a wide range of disciplines including civil engineering, geospatial sciences, meteorology and climate change, physical geography, geology, water resources, and/or sustainable systems. The EVE program integrates with other MSU Denver programs, centers such as Earth and Atmospheric Sciences, Political Science, Business Management, Communication Arts and Sciences, One World One Water (OWOW) etc.

The goal of the program is to prepare graduates for the future to identify, analyze, formulate, and design solutions to Civil/Environmental Engineering problems, both independently and in a team environment, apply considerations of technical, legal, regulatory, social, environmental, and economic factors towards managing multi-faceted and multi-disciplinary projects, communicate effectively in both technical and non-technical settings with co-workers, professional clients, and the public and demonstrate commitment and progress in lifelong learning, professional development, and leadership, including participation in continuing education courses, workshops, and/or graduate study, and the pursuit of licensure as a Professional Engineer.

### Major:

- [Environmental Engineering Major, B.S.](#)

### Sustainable Systems Engineering (SSE)

<https://www.msudenver.edu/engineering-engineering-technology/sustainable-systems-engineering-major-bs/>

Sustainable Systems Engineering program focuses on the interactions of society, engineering and ecological systems. Specifically, the program studies the relationship of engineering to economic development, environmental impact, social structure, and the sustainability of natural resources. The program examines how social, political, and engineering activities influence human well-being as a whole complex system and provides students with knowledge and methods to analyze and solve sustainable development problems. The educational approach of the SSE program incorporates theory and hands-on learning to reinforce theoretical concepts. The engineering core component will provide solid training on the majority subjects required by Fundamental Engineering (FE) exam.

### Major:

- [Sustainable Systems Engineering Major, B.S.](#)

## Engineering Technology Programs Offered

### Civil Engineering Technology (CET)

<https://www.msudenver.edu/engineering-engineering-technology/civil-engineering-major-bs/>

The program prepares students for a career in civil engineering technology and related areas. Graduates of the CET program are employed in all levels of government, design and construction firms, manufacturing, sales and testing companies. The typical job description for CET graduates includes: planning, designing and constructing structures such as buildings, bridges, airports, highways, railroads, reservoirs, dams, and water and sewerage systems.

#### Major:

- [Civil Engineering Technology Major, B.S.](#)

A concentration is required. Choose from either of the following:

1. Construction Concentration
2. Structures Concentration

#### Minor:

- [Architecture Minor](#)

### Electrical Engineering Technology (EET)

<https://www.msudenver.edu/engineering-engineering-technology/electrical-engineering-technology-major-bs/>

The Electrical Engineering Technology curriculum provides a foundation of knowledge in technology by merging the analytic skills of the engineer with the practical skills of the technician. The combination of theory and application prepares graduates for a transition to rewarding employment in a variety of industries, including, but not limited to: manufacturing, technical services, computers, government and public utilities. Concentrations in computer engineering technology, communications, and power & control systems are offered in addition to the core curriculum. With departmental approval, students may also pursue a variety of options; for instance, a minor in biology would make for a good match for someone seeking employment in Bio-Med.

#### Major:

- [Electrical Engineering Technology Major, B.S.](#)

A concentration or an external minor<sup>1</sup> is required. Choose from any of the following:

1. Computer Engineering Technology Concentration
2. Communications Concentration
3. Power and Controls Concentration

#### Certificate:

- [Electrical Engineering Technology Certificate](#)

#### Minor:

- [Electrical Engineering Technology Minor](#)

Note:

<sup>1</sup>In select cases, with prior approval of an EET advisor, a minor in another area may be substituted for a concentration.

### Mechanical Engineering Technology (MET)

<https://www.msudenver.edu/engineering-engineering-technology/mechanical-engineering-technology-major-bs/>

The Mechanical Engineering Technology program emphasizes both theoretical and practical applications, providing MSU Denver students with a solid foundation in engineering fundamentals, as well as hands-on laboratory work. This emphasis allows students to experience the integration of engineering theory and practice, which is an enhancement to traditional scientific educations. The MET program offers state-of-the-art, computer-aided, engineering technology courses to keep students current with industry standards. MET graduates have a strong interest in mechanical devices and the desire to apply mathematics and computer science to engineering analysis and design. In addition to the core curriculum, concentrations in manufacturing and mechanical are offered.

#### Major:

- [Mechanical Engineering Technology Major, B.S.](#)

A concentration is required. Choose from either of the following:

1. Manufacturing Concentration
2. Mechanical Concentration

#### Certificate:

- [Advanced Composite Materials and Manufacturing Certificate](#)
- [Additive Manufacturing Engineering Certificate](#)
- [Engineering Manufacturing Certificate](#)

#### Minor:

- [Mechanical Engineering Technology Minor](#)

## Other Programs

### Construction Project Management (CPM)

<https://www.msudenver.edu/engineering-engineering-technology/construction-project-management-major-ba/>

Construction Project Management is an interdisciplinary major created to support a workforce initiative for the fast growing industry of construction. This major offers core classes along with a concentration in Computer Information Systems or Management. The students are also required to earn a minor, with the following disciplines recommended: Architecture, Industrial Design, Mechanical Engineering Technology, Computer Science, Environmental Studies, Leadership Studies or Spanish. If you have

journeyman credentials, you will be awarded 30 lower-division credit hours which can be used in lieu of a minor.

### Major:

- [Construction Project Management Major, B.A.](#)

A concentration and an external minor<sup>1</sup> are required. Choose from either of the following:

1. Computer Information Systems
2. Management

<sup>1</sup>*Recommended minors include: Architecture, Industrial Design, Mechanical Engineering Technology, Computer Science, Environmental Studies. Students are encouraged to consult with their advisor about minor selection.*

## Contact Information

Metropolitan State University of Denver

Department of Engineering and Engineering Technology

Campus Box 29  
PO Box 173362  
Denver, CO 80217-3362

<https://www.msudenver.edu/caet>

Phone: 303-615-0499

## Additive Manufacturing Engineering Certificate

The certificate in Additive Manufacturing Engineering is designed to prepare students with hands-on training and knowledge necessary to meet increasing demand in the design, scanning, and manufacture of components with additive manufacturing techniques. The program will provide students with theoretical and practical knowledge in material identification, 3D design and scanning, design for additive manufacturing, direct digital manufacturing techniques, inspection, and applications. All of the courses within this certificate can be applied toward the completion of a major in the Mechanical Engineering Technology (MET) program. The certificate in Additive Manufacturing Engineering is comprised of a minimum of 18 credit hours.

### Admission and Graduation Requirements

This certificate program is open to all undergraduate, degree-seeking students. To be awarded the program certificate, the student must meet the following requirements:

- a. complete 18 credits of courses as recommended by the certificate program;
- b. achieve a cumulative GPA of 3.0 or higher in the certificate program;
- c. earn at least a "C" or better in each of the certificate courses; and
- d. earn a minimum of 60% of required courses at MSU Denver.

## Advising and Contact Information

Individuals interested in this certificate program should contact the Department of Engineering and Engineering Technology at 303-615-0499 to schedule an appointment for an advising session either in person or by phone.

## Required Courses

- MET 1010 - Manufacturing Processes **Credits: 3**
- MET 1200 - Technical Drawing I **Credits: 3**
- MET 1210 - 3D Modeling **Credits: 3**
- MET 1310 - Principles of Quality Assurance **Credits: 3**
- MET 3260 - Direct Digital Manufacturing **Credits: 3**
- MET 3410 - Geometric Dimensioning and Tolerancing **Credits: 3**

**Total for Certificate: 18 credits**

## Advanced Composite Materials and Manufacturing Certificate

The certificate in Advanced Composite Materials and Manufacturing is designed to prepare students with hands-on training and knowledge necessary to meet increasing demand in the design, manufacture and repair of components constructed with advanced composite materials, such as carbon and aramid fibers. The program will provide students with theoretical and practical knowledge in material identification, design, composite safety, manufacturing techniques, inspection, and repairs. The certificate in Advanced Composite Materials and Manufacturing is comprised of a minimum of 15 credit hours.

### Admission and Graduation Requirements

This certificate program is open to all undergraduate, degree-seeking students. To be awarded the program certificate, the student must meet the following requirements:

- a. complete 15 credits of courses as recommended by the certificate program;
- b. achieve a GPA of 3.0 or higher in the certificate program courses;
- c. earn at least a "C" or better in each of the certificate courses; and
- d. earn a minimum of 60% of required courses at MSU Denver.

## Advising and Contact Information

Individuals interested in this certificate program should contact the Department of Engineering and Engineering Technology at 303-615-0499 to schedule an appointment for an advising session either in person or by phone.

## Prerequisite Courses

- CHE 1800 - General Chemistry I **Credits: 4**
- MTH 1110 - College Algebra for Calculus **Credits: 4**

**Total Prerequisites: 8 credits**

## Required Courses

- MET 1010 - Manufacturing Processes **Credits: 3**
- MET 1310 - Principles of Quality Assurance **Credits: 3**
- MET 2200 - Materials of Engineering **Credits: 3**
- MET 3215 - Composites Manufacturing **Credits: 3**
- MET 4370 - Advanced Composite Structures: Design, Damage, Repair and Testing **Credits: 3**

**Total for Certificate: 15 credits**

## Architecture Minor

### Required Courses

- ARCH 2001 - Introduction to Architecture **Credits: 3**
- ARCH 2002 - Architectural Design-Studio 1 **Credits: 3**
- ARCH 2003 - Building Structures **Credits: 3**
- ARCH 3001 - Architectural Interior Design **Credits: 3**
- ARCH 3002 - Architectural Design-Studio 2 **Credits: 3**
- ARCH 3003 - Digital Presentations in Architecture **Credits: 3**

**Total for Architecture Minor: 18 credits**

## Civil Engineering Technology Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Bachelor of Science degree is awarded upon completion of the required program. The program emphasizes theory and practice.

The Civil Engineering Technology curriculum provides a foundation of knowledge in applied engineering by merging the analytic skills of the engineer with the practical skills of the technician. The combination of theory and application prepares graduates for a transition to rewarding employment in a variety of industries.

Civil engineering technology graduates apply engineering principles in performing many of the tasks necessary for the planning and construction of highways, buildings, railroads, bridges, reservoirs, dams, irrigation works, water systems, airports, and other structures. Graduates may participate in estimating costs, preparing

specifications for materials, and in surveying, drafting, and design work. In recent years, a major work area for civil and environmental engineering technology has involved environmental problems. This area includes design and construction of water supply facilities and the design of wastewater collection and treatment facilities.

Under the revised rules and regulations of the Colorado State Board for Registration for Professional Engineers and Professional Land Surveyors, students within 30 semester hours of graduation may take the Fundamentals of Engineering Examination.

This program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, III Market Place, Suite 1050, Baltimore, MD 21202-4012, Phone: 410-347-7700.

If considering graduate school studies in engineering or physical science, students are encouraged to elect the mathematics minor.

If considering graduate school studies in architectural engineering, students are encouraged to elect the architecture minor.

### Student Outcomes

The program must have documented student outcomes that support the program educational objectives. Attainment of these outcomes prepares graduates to enter the professional practice of engineering.

1. an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;
2. an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;
3. an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and
5. an ability to function effectively as a member of a technical team.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- Any course identified in the CET major core, the concentrations, and the optional minors must be passed with a grade of "C" or better.

- All MTH, PHY, CHE courses must be passed with a grade of "C-" or better.
- CET majors must comply with all University General Studies requirements.
- A total minimum of 128 semester hours are required for graduation.
- Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

- CET 3120 - Engineering Economy **Credits: 3**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- MTH 1410 - Calculus I **Credits: 4**
- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1410 - Calculus I
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended :**
    - CHE 1100 - Principles of Chemistry
    - CHE 1150 - Principles of Chemistry Laboratory
    - PHY 2311 - General Physics I
    - PHY 2321 - General Physics I Laboratory
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** CET 3120 - Engineering Economy
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement (0 or 3 credits)

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Prerequisites: 17 credits

The department recommends that this requirement be met along with the General Studies requirements.

## Required Courses: 52 credits

- CET 1040 - Introduction to Engineering **Credits: 3**  
or
- CET 1100 - Introduction to Civil Engineering Technology **Credits: 3**
- CET 1215 - Engineering Graphics **Credits: 3**
- CET 2150 - Mechanics I-Statics **Credits: 3**
- CET 3135 - Mechanics of Materials with Laboratory **Credits: 4**
- CET 3170 - Introduction to Structural Analysis **Credits: 3**
- CET 3185 - Fluid Mechanics I for Civil Engineering Technology **Credits: 3**
- CET 3190 - Fluid Mechanics II for Civil Engineering Technology **Credits: 3**
- CET 3330 - Environmental Technology Processes **Credits: 3**
- CET 4130 - Soil Mechanics **Credits: 4**
- CET 4135 - Foundation Engineering **Credits: 3**
- CET 4150 - Highway Engineering and Surveying **Credits: 3**
- CET 4570 - Engineering Law **Credits: 3**
- JMP 2610 - Introduction to Technical Writing **Credits: 3**
- MET 3110 - Thermodynamics **Credits: 3**
- MET 3160 - Mechanics II-Dynamics **Credits: 3**
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**

## Select one of the following two concentrations:

### Structures Concentration: 21 credits

- CET 4120 - Concrete Design I **Credits: 3**
- CET 4140 - Concrete Design II **Credits: 3**
- CET 4400 - Steel Design I **Credits: 3**
- CET 4410 - Steel Design II **Credits: 3**
- CET 4450 - Timber Design **Credits: 3**
- Approved Technical Electives **Credits: 6** (consult a CET advisor)

### Construction Concentration: 21 credits

- CET 3100 - Construction Methods **Credits: 3**
- CET 3110 - Construction Estimating **Credits: 3**

- CET 4120 - Concrete Design I **Credits:** 3
- CET 4400 - Steel Design I **Credits:** 3
- CET 4450 - Timber Design **Credits:** 3
- Approved Technical Electives **Credits:** 6 (consult a CET advisor)

Computer Science 1\* or CSS 1247 - Introduction to Programming: Visual Basic\*

\* These courses may be used to substitute EET 2350 requirement with approval of CET advisor.

### Additional Required Courses: 14 credits

- ARCH 2003 - Building Structures **Credits:** 3
- EET 2350 - Advanced Technical Programming **Credits:** 3
- MTH 2410 - Calculus II **Credits:** 4
- MTH 2420 - Calculus III **Credits:** 4

### Senior Experience: 3 credits

- CET 4100 - Capstone: Design Project I **Credits:** 1
- CET 4110 - Capstone: Design Project II **Credits:** 2

### Recommended Optional Minors for CET Majors

The minor cannot be used to replace the concentration.

#### Architecture Minor

##### Required Courses

- ARCH 2001 - Introduction to Architecture **Credits:** 3
- ARCH 2002 - Architectural Design-Studio 1 **Credits:** 3
- ARCH 2003 - Building Structures **Credits:** 3
- ARCH 3001 - Architectural Interior Design **Credits:** 3
- ARCH 3002 - Architectural Design-Studio 2 **Credits:** 3
- ARCH 3003 - Digital Presentations in Architecture **Credits:** 3
- 

**Total for Architecture Minor: 18 credits**

### Mathematics Minor: 23-24 credits

##### Required Courses

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4
- MTH 2420 - Calculus III **Credits:** 4
- MTH 3130 - Applied Methods in Linear Algebra **Credits:** 4
- MTH 3420 - Differential Equations **Credits:** 4
- MTH 3210 - Probability and Statistics **Credits:** 4 or EET 2350 - Advanced Technical Programming or CS 1050 -

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Prerequisites	17 credits
Required Courses	52 credits
Concentration Selection	21 credits
Additional Required Courses	14 credits
Senior Experience	3 credits
<b>Total for the Civil Engineering Major, B.S.</b>	<b>Minimum of 128 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 12 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

### Computer Engineering Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

#### About the Program

The Computer Engineering (CPE) program offers the Bachelor of Science degree major.

The Bachelor of Science in Computer Engineering is a discipline with historical foundations in computer science and electrical engineering. It is concerned with the study of a variety of topics including circuit design, programmable logic, computer design, computer programming, data communication, machine intelligence, robotics, the algorithmic solutions of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. In the modern society, the Computer Engineering discipline will also deal with secure computing in Web information, space and industry systems. This discipline deals with effective ways to represent and manipulate information, algorithms to process information, hardware systems and technologies to run software, design methodologies for hardware and software systems, and engineering techniques for ensuring the accuracy and cost effectiveness of these processes.

Students majoring in Computer Engineering must meet the following curriculum and are required to complete all General Studies courses, program pre-requisite courses, elective courses and core courses with a grade required for graduation. Technical elective courses must be approved by the program coordinator or department chair. Students who are considering a major in Computer Engineering are expected to consult with CPE faculty for advising.

Students are encouraged to enroll in an internship/cooperative education program through the University's C2 Hub to gain valuable work experience.

A full-time student may complete the program in four years (eight semesters).

## Student Outcomes

Student outcomes are used to evaluate the students and support the program educational objectives. The students in the Computer Engineering program are expected to attain the outcomes (1) through (7) as defined by ABET Criterion 3, Student Outcomes.

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A minimum of 128 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- For every computer engineering course, a minimum grade of "C" is required for all prerequisites before a student can progress
- CPE majors must comply with all University General Studies requirements.
- This is an extended major, therefore a minor is not required to fulfill the degree requirements.
- Students may refer to program flowchart or consult with an advisor for degree planning.
- Selecting any General Studies course approved for Multicultural credit will satisfy the Multicultural requirement of three credits. Selecting any General Studies course approved for Global Diversity credit will satisfy the Global Diversity requirement of three credits.
- Some courses require prerequisites from outside CPE courses. Check with the Department for more information.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Program Prerequisites: 31 credits

All students must complete the following courses. The department recommends that this requirement be met along with the General Studies requirements.

- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- PHY 2311 - General Physics I **Credits: 4** (also meets General Studies requirements)
- PHY 2321 - General Physics I Laboratory **Credits: 1** (also meets General Studies requirements)
- PHY 2331 - General Physics II **Credits: 4** (also meets General Studies requirements)
- PHY 2341 - General Physics II Laboratory **Credits: 1** (also meets General Studies requirements)
- MTH 1410 - Calculus I **Credits: 4** (also meets General Studies requirements)
- MTH 2410 - Calculus II **Credits: 4**
- MTH 3130 - Applied Methods in Linear Algebra **Credits: 4**
- MTH 3170 - Discrete Mathematics for Computer Science **Credits: 4**

### Required CPE Courses: 64 credits

- CPE 1040 - Introduction to Engineering **Credits: 3**
- CPE 1140 - DC Circuit Fundamentals **Credits: 4**
- CPE 1150 - AC Circuit Fundamentals **Credits: 4**
- CPE 2145 - Solid State Electronics **Credits: 3**
- CPE 2165 - Solid State Electronics Laboratory **Credits: 1**
- CPE 2310 - Digital Systems I **Credits: 3**
- CPE 2350 - C Programming for Engineer **Credits: 3**
- CPE 3330 - Digital Systems II **Credits: 3**
- CPE 3400 - Signals and Systems **Credits: 3**
- CPE 3500 - Semiconductor Device Fundamentals **Credits: 3**
- CPE 3620 - A&D Communications **Credits: 3**
- CPE 4020 - Digital Circuits III - Hardware Description Language **Credits: 3**
- CPE 4320 - Digital Filter Design **Credits: 3**
- CPE 4370 - Embedded System Design I **Credits: 3**
- CPE 4390 - Embedded System Design II **Credits: 3**
- CPE 4600 - VLSI Circuits and Systems **Credits: 3**
- CS 1050 - Computer Science 1 **Credits: 4**
- CS 1400 - Computer Organization 1 **Credits: 4**
- CS 2050 - Computer Science 2 **Credits: 4**
- CS 2400 - Computer Organization 2 **Credits: 4**

### Upper Division Major Electives: 6 credits

Please see the department advisor for approval of upper division electives.

### Senior Experience: 3 credits

- CPE 4700 - Senior Design I **Credits: 1**
- CPE 4800 - Senior Design II **Credits: 2**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Prerequisites	31 credits
Required Major Courses	64 credits
Upper Division Major Electives	6 credits
Senior Experience	3 credits
<b>Total for the Computer Engineering Major, B.S.</b>	<b>Minimum of 128 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 9 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Construction Project Management Major, B.A.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

This is a multi-disciplinary major created to support a workforce initiative for the Construction Industries. A Minor is required. Students should consult with an advisor prior to selecting their minor. Recommended minors are- Architecture, Industrial Design, Mechanical Engineering Technology, Computer Science, Environmental Studies, Leadership Studies and Spanish.

Students with a completed U.S. Department of Labor (DOL) Office of Apprenticeship (OA) four-year Registered Construction Trades Apprenticeship and journeyman's credentials are awarded a block of 30 lower division semester credits that may be used in lieu of the required minor.

Apprenticeship credits are only applicable for the CPM major and may not be utilized in any other way at MSU Denver.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)

- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of D- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. Recommended minors are:
  - Architecture, Industrial Design, Mechanical Engineering Technology, Computer Science, Environmental Studies, Leadership Studies and Spanish
- Students are required to take elective courses to complete their major and fulfill the graduation requirement of 120 credits. The number of elective credits required varies depending on the minor selected. Students should consult with an advisor prior to selecting electives.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1210 - Introduction to Statistics
- Arts and Humanities (6 credits)
  - **Recommended:** PHI 3360 - Business Ethics or PHI 3370 - Computers, Ethics, and Society
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** CET 3120 - Engineering Economy and COMM 3000 - Diversity and Communication in the U.S.
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## CPM Required Courses: 27 credits\*

*\*The industry internship is required for students who do not bring in the apprenticeship credits noted above. The internship must be an approved construction industry placement.*

Students are requested to take 9 credits of internship.

- CPM 1010 - Introduction to Construction Project Management **Credits: 3**
- AMS 3980 - Industry Internship **Credits: 1-15** (9 credits required)  
or
- CET 3980 - Internship in Civil Engineering Technology **Credits: 1-15** (9 credits required)
- CET 3100 - Construction Methods **Credits: 3**
- CET 3110 - Construction Estimating **Credits: 3**
- CIS 2010 - Foundations of Information Systems **Credits: 3**
- CPM 3000 - Workplace Safety **Credits: 3**
- MGT 3000 - Organizational Management **Credits: 3**

## Additional CPM Requirement: 6 credits

All students must complete the following courses:

- ARCH 2003 - Building Structures **Credits: 3**
- CET 3120 - Engineering Economy **Credits: 3**

Select one of the following three concentrations:

## Computer Information Systems Concentration: 21 credits

- CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
- CIS 3050 - Fundamentals of Systems Analysis and Design **Credits: 3**
- CIS 3060 - Database Management Systems **Credits: 3**
- CIS 3145 - Business Application Development **Credits: 3**
- CIS 3490 - Managing Business Information with Enterprise Systems **Credits: 3**
- CIS 4260 - Database Administration **Credits: 3**
- CIS 4410 - Management Information Systems **Credits: 3**

(Elective courses may not include those with the following prefixes: ACC, CIS, FIN, MKT, MGT)

<b>Total for the Construction Project Management Major, B.A.</b>	<b>120 credits</b>
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Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Facilities Management Concentration: 21 credits

- CPM 1100 - Introduction to Facilities Management **Credits: 3**
- CPM 2010 - Facility Management Technology and Software **Credits: 3**
- CPM 3020 - Facilities Maintenance and Operations **Credits: 3**
- CET 3980 - Internship in Civil Engineering Technology **Credits: 1-15 (3 credits required)**
- CET 4570 - Engineering Law **Credits: 3**
- Approved Electives: 6 credits

### Management Concentration: 21 credits

- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3220 - Legal Environment of Business II **Credits: 3**  
or
- MGT 3240 - Employment and Human Resource Law **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3**
- MGT 3550 - Operations Management **Credits: 3**
- MGT 3260 - Managing Business Risk **Credits: 3**
- MGT 4050 - Purchasing and Supply Chain Management **Credits: 3**
- MGT 4550 - Project Management **Credits: 3**

(Elective courses may not include those with the following prefixes: ACC, CIS, FIN, MKT, MGT)

### Senior Experience: 3 credits

- CPM 4950 - Professional Internship **Credits: 1-15 (3 credits required)**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
CPM Required Courses	27 credits
Additional Requirements	6 credits
Concentration	21 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	27-33 credits

### Electrical Engineering Technology Certificate

#### Prerequisites:

- MTH 1400 - Precalculus Mathematics **Credits: 4**  
(The sequence MTH 1110 and MTH 1120; or MTH 1410 may be substituted.)
- PHY 2311 - General Physics I **Credits: 4**  
(Algebra-based PHY 2010 may be substituted.)
- PHY 2321 - General Physics I Laboratory **Credits: 1**  
(Algebra-based PHY 2030 may be substituted.)
- PHY 2331 - General Physics II **Credits: 4**  
(Algebra-based PHY 2020 may be substituted.)
- PHY 2341 - General Physics II Laboratory **Credits: 1**  
(Algebra-based PHY 2040 may be substituted.)

#### Required Courses:

- EET 2000 - Electric Circuits and Machines **Credits: 3**  
(The sequence EET 1140 and EET 1150 may be substituted.)
- EET 2310 - Digital Circuits I **Credits: 3**
- EET 2350 - Advanced Technical Programming **Credits: 3**
- EET 2145 - Electronics **Credits: 3 \***  
or
- EET 3010 - Industrial Electronics **Credits: 4**
- EET 3330 - Digital Circuits II **Credits: 3**
- EET 4370 - Microcontrollers **Credits: 3**

**Total: 19**

#### Note:

\*EET certificate students planning to continue on to the Electrical Engineering Technology Bachelor of Science degree are required to take EET 1140, EET 1150, and EET 2145.

## Electrical Engineering Technology Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Electrical Engineering Technology curriculum emphasizes both theoretical and practical applications, providing MSU Denver students with a solid foundation in electrical engineering fundamentals, as well as hands-on laboratory work. This applied engineering emphasis allows students to experience the integration of engineering theory and practice. Electrical Engineering Technologists are employed in various industries ranging from large aerospace companies to small businesses applying engineering analysis to solve problems and design to enhance existing conditions. The Electrical Engineering Technology program at MSU Denver is aimed to educate students in the theoretical and applied skillsets necessary to work in a wide range of technology industry positions.

This program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202, Telephone: (410) 347-7700 (abet.org). ABET, Inc. was formally known as Accreditation Board for Engineering and Technology, Inc.

### Student Outcomes

1. an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;
2. an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;
3. an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and
5. an ability to function effectively as a member of a technical team.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 128 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree.
- Any course used to satisfy a prerequisite for an EET course must be passed with a grade of C or better.
- All MTH, PHY, CHE courses must be passed with a grade of "C-" or better.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
  - **Recommended:**
    - ENG 1010 - Composing Arguments
    - ENG 1020 - Research and Argument Writing
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking
- Quantitative Literacy (4 credits)
  - **Recommended:** MTH 1400 - Precalculus Mathematics (the sequence of MTH 1110 - College Algebra for Calculus and MTH 1120 - College Trigonometry may be substituted for MTH 1400)
- Arts and Humanities (6 credits)
  - **Recommended:** PHI 1030 - Introduction to Ethics or PHI 3360 - Business Ethics
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:**
    - PHY 2311 - General Physics I\*
    - PHY 2321 - General Physics I Laboratory\*
    - CHE 1100 - Principles of Chemistry\*
    - CHE 1150 - Principles of Chemistry Laboratory\*
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\* The listed courses are required ancillary courses for the major and can also fulfill general studies requirements

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

## Required Ancillary Courses: 14 credits

All students must complete the following courses. These courses can also count towards the General Studies Requirements.

- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- MTH 1400 - Precalculus Mathematics **Credits: 4** or (the sequence of MTH 1110 - College Algebra for Calculus and MTH 1120 - College Trigonometry may be substituted for MTH 1400)
- PHY 2311 - General Physics I **Credits: 3**
- PHY 2321 - General Physics I Laboratory **Credits: 1**

## Required EET Core Courses: 69 credits

- EET 1001 - Electronics: An Introduction **Credits: 3** or
- EET 1040 - Introduction to Engineering **Credits: 3**
- EET 1140 - Circuits I **Credits: 4**
- EET 1150 - Circuits II **Credits: 4**
- EET 2145 - Electronics **Credits: 3**
- EET 2165 - Electronics Laboratory **Credits: 1**
- EET 2310 - Digital Circuits I **Credits: 3**
- EET 2340 - Technical Programming Applications **Credits: 3**
- EET 2350 - Advanced Technical Programming **Credits: 3**
- EET 3110 - Transform Methods in Circuit Analysis **Credits: 4**
- EET 3120 - Advanced Analog Electronics **Credits: 4**
- EET 3330 - Digital Circuits II **Credits: 3**
- EET 3410 - Electric Machines **Credits: 3**
- EET 3620 - Analog and Digital Communications **Credits: 3**
- EET 3630 - Electromagnetic Fields **Credits: 3**
- EET 3715 - Control Systems Analysis **Credits: 4**
- EET 3730 - Process Control Systems **Credits: 2**
- EET 3740 - Programmable Logic Controllers **Credits: 2**
- EET 4340 - Interface Techniques **Credits: 3**
- EET 4370 - Microcontrollers **Credits: 3**
- JMP 2610 - Introduction to Technical Writing **Credits: 3**
- MTH 1410 - Calculus I **Credits: 4**
- MTH 2410 - Calculus II **Credits: 4**

## EET Technical Electives: 18 credits

Students must complete 18 hours of approved EET technical electives. If you have questions about this course list, please talk with

your faculty advisor. Approved electives include the following courses:

- EET 3420 - Electric Power Distribution **Credits: 3**
- EET 3430 - Power Generation Using Renewable Energies **Credits: 3**
- EET 3690 - Fiber Optics **Credits: 3**
- EET 3670 - Measurements for Communications Systems **Credits: 3**
- EET 3980 - Internship in Electrical Engineering Technology **Credits: 2** (*A maximum of 4 credit hours of this course can be applied to the EET major.*)
- EET 4020 - Digital Circuits III - Hardware Description Language **Credits: 3**
- EET 4320 - Digital Filters **Credits: 3**
- EET 4330 - Data Communications **Credits: 3**
- EET 4620 - Advanced Communications Systems **Credits: 3**
- EET 4710 - Digital Control Systems Design **Credits: 4**
- EET 4730 - Robotics **Credits: 3**

## Senior Experience: 3 credits

- EET 4100 - Senior Project I **Credits: 1**
- EET 4110 - Senior Project II **Credits: 2**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	14 credits
Required EET Courses	69 credits
EET Technical Electives	18 credits
Senior Experience	3 credits
<b>Total for the Electrical Engineering Major, B.S.</b>	<b>Minimum of 128 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 9 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Electrical Engineering Technology Minor

A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

## Prerequisites:

- MTH 1400 - Precalculus Mathematics **Credits: 4**  
(The sequence MTH 1110 and MTH 1120; or MTH 1410 may be substituted.)
- PHY 2311 - General Physics I **Credits: 4**  
(Algebra-based PHY 2010 may be substituted.)
- PHY 2321 - General Physics I Laboratory **Credits: 1**  
(Algebra-based PHY 2030 may be substituted.)
- PHY 2331 - General Physics II **Credits: 4**  
(Algebra-based PHY 2020 may be substituted.)
- PHY 2341 - General Physics II Laboratory **Credits: 1**  
(Algebra-based PHY 2040 may be substituted.)

### Required Courses:

- EET 2000 - Electric Circuits and Machines **Credits: 3**  
(The sequence EET 1140 and EET 1150 may be substituted.)
- EET 2310 - Digital Circuits I **Credits: 3**
- EET 2350 - Advanced Technical Programming **Credits: 3**
- EET 3010 - Industrial Electronics **Credits: 4** (preferred for minor)  
or
- EET 2145 - Electronics **Credits: 3 \***
- EET 3330 - Digital Circuits II **Credits: 3**
- EET 4370 - Microcontrollers **Credits: 3**

Total: 19

### Note:

\*EET minor students planning to continue on to the Electrical Engineering Technology major for the Bachelor of Science degree are required to take EET 1140, EET 1150, and EET 2145.

### Engineering Manufacturing Certificate

The proposed certificate provides fundamental knowledge and practical skills for subtractive manufacturing and the quality assurance concept for general manufacturing industry. With the certificate, a student should be able to start his or her career in mechanical or industrial engineering technician positions with a chance to move into quality assurance expert jobs or become lean manufacturing specialists. Also, since all of required courses can be applied to the manufacturing concentration of mechanical engineering technology (MET), a student can come back to MSU Denver to pursue a BS degree in MET in the future.

### Non-Degree Seeking Students

Non-degree seeking students need to be aware of their application process: <https://msudenver.edu/admissions/student-types/non-degree/>

Financial aid is not available for non-degree seeking students.

### Advising

Students can contact the College of Professional Studies at 303-615-1099 for advising.

### Important Notice

Completion of this certificate does not guarantee admission into any Engineering and Engineering Technology undergraduate program.

### Academic Policies:

Academic policies and the Student Code of Conduct will be employed to all MSU Denver students, regardless of level. Access the Student Code of Conduct.

- **Total: 25 credits**
- **Students have 19 required credit hours and choose 6 credit hours of electives**
- **In addition, there are 6 credit hours of ancillary pre-requisites that are not counted in this certificate - check all required and elective courses for these ancillary pre-requisites**
- *Some courses might require additional prerequisite(s). Please refer to the University Catalog for additional information*

### Required Courses:

- AMS 1010 - Survey of Advanced Manufacturing and Workplace Preparation **Credits: 3**
- MET 1010 - Manufacturing Processes **Credits: 3**  
Or
- IND 2830 - Manufacturing Materials and Processes **Credits: 3**
- MET 1310 - Principles of Quality Assurance **Credits: 3**
- MET 3000 - Manufacturing Analysis **Credits: 4**
- MET 3630 - Lean Manufacturing Systems Engineering **Credits: 3**
- MET 3980 - Internship in Mechanical Engineering Technology **Credits: 1-15**  
Or
- AMS 4950 - Professional Internship **Credits: 1-15**

Students must complete all 19 required credit hours and 6 credit hours of electives

## Elective Courses:

- CET 1215 - Engineering Graphics **Credits:** 3
- EET 1001 - Electronics: An Introduction **Credits:** 3
- IND 1450 - Technical Drawing and CAD **Credits:** 3
- IND 3660 - Computer Aided Modeling **Credits:** 3
- JMP 2610 - Introduction to Technical Writing **Credits:** 3
- MET 1200 - Technical Drawing I **Credits:** 3
- MET 1210 - 3D Modeling **Credits:** 3
- MET 3300 - Statistical Process Control **Credits:** 3

Students must complete 6 credit hours of electives

**Total credit hours for certificate = 25**

## Ancillary Pre-Requisite Courses

These credit hours are not counted in the credit hour total.

- ENG 1010 - Composing Arguments **Credits:** 3 or higher level course
- MTH 1110 - College Algebra for Calculus **Credits:** 4 or higher level course

**Total ancillary pre-requisite hours = 7**

## Environmental Engineering Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Environmental Engineering (EVE) program prepares students to plan and design sustainable environmental systems maximizing the quality of life by minimizing the impact of human activity on the environment. Environmental Engineering graduates will receive a crosscutting collaborative education between two distinct departments. By offering a multidisciplinary approach between engineering and earth and atmospheric sciences, students will receive more customized degree tailored to their interests and flexible to an ever-changing job market. The educational approach will incorporate theory and hands-on learning to reinforce theoretical concepts. The engineering core component will provide solid training on the majority subjects required by Fundamental Engineering (FE) exam.

## Student Outcomes

Student outcomes are used to evaluate the students and support the program educational objectives. The students in the Environmental Engineering program are expected to attain the outcomes (1) through (7) as defined by ABET Criterion 3, Student Outcomes.

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A minimum of 129 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- This is an extended major, therefore a minor is not required to fulfill degree requirements.
- A minimum grade of "C" is required for all prerequisites before a student can progress. A full-time student may complete the program in four years (total of eight semesters)

**General Studies Requirements: 33 credits**

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1410 - Calculus I
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:**
  - CHE 1800 - General Chemistry I
  - CHE 1801 - General Chemistry I Laboratory
  - PHY 2311 - General Physics I
  - PHY 2321 - General Physics I Laboratory
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Prerequisite Courses: 14 credits

All students must complete the following courses. The department recommends that this requirement be met along with the General Studies requirements.

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- MTH 1410 - Calculus I **Credits:** 4
- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1

## Required Core Courses: 84 credits

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1
- ENV 1200 - Introduction to Environmental Science **Credits:** 3

- ENV 2100 - Environmental Sampling and Analysis **Credits:** 3
- EVE 1215 - Engineering Graphics: Solid Modeling **Credits:** 3
- EVE 2150 - Mechanics of Static Systems **Credits:** 3
- EVE 3000 - Concepts in Environmental Engineering **Credits:** 3
- EVE 3135 - Strength of Materials with Laboratory **Credits:** 4
- EVE 3160 - Mechanics of Dynamic Systems **Credits:** 3
- EVE 3185 - Fundamental Fluid Mechanics with Laboratory **Credits:** 4
- EVE 3200 - Environmental Sustainability in Urban Design **Credits:** 3
- EVE 3320 - Environmental Impact Statements in Engineering **Credits:** 3
- EVE 3400 - Engineered Water **Credits:** 3
- EVE 4160 - Geotechnical Engineering with Laboratory **Credits:** 4
- EVE 4200 - Environmental Policy in Engineering **Credits:** 3
- EVE 4420 - Wetland Studies **Credits:** 3
- EVE 4450 - Wood in Engineering **Credits:** 3
- MTH 2410 - Calculus II **Credits:** 4
- MTH 2420 - Calculus III **Credits:** 4
- MTH 3210 - Probability and Statistics **Credits:** 4
- MTH 3420 - Differential Equations **Credits:** 4
- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1
- SSE 1040 - Life Cycle and Systems Engineering - An Introduction **Credits:** 3
- SSE 2350 - Engineering Programming **Credits:** 3

## Major Elective Courses: 4 credits

Students are required to take at least 4 credit hours from the list below to complete their major.

- BIO 1081 - General Biology II **Credits:** 3
- BIO 1091 - General Biology Laboratory II **Credits:** 1
- ENV 3010 - Applied Pollution Science **Credits:** 3
- ENV 3100 - Air Pollution **Credits:** 3
- ENV 3710 - Environmental Remediation **Credits:** 3
- ENV 3720 - Waste Management **Credits:** 3
- ENV 3730 - Environmental Risk Assessment **Credits:** 3
- ENV 4400 - Landscape Ecology **Credits:** 3
- ENV 4440 - Limnology **Credits:** 3
- ENV 4450 - Stream Ecology **Credits:** 3
- ENV 4460 - Advanced Water Quality Analysis **Credits:** 3
- EVE 2250 - International Engineering Project **Credits:** 3
- GEL 4150 - Hydrology (Surface Water) **Credits:** 4
- GEL 4250 - Hydrogeology (Groundwater) **Credits:** 4
- SSE 2200 - Materials Science **Credits:** 3
- SSE 3175 - Modeling Structural Systems **Credits:** 3

- SSE 3300 - Thermodynamics and Heat Transfer **Credits: 3**
- SSE 3500 - Humanitarian Engineering **Credits: 3**
- SSE 4200 - Sustainable Development Strategy **Credits: 3**

## Senior Experience: 3 credits

- EVE 4610 - Senior Design Project **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Prerequisite Courses	14 credits
Required Core Courses	84 credits
Major Elective Courses	4 credits
Senior Experience	3 credits
<b>Total for the Environmental Engineering Major, B.S.</b>	<b>Minimum of 129 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 9 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Mechanical Engineering Technology Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Mechanical Engineering Technology curriculum emphasizes both theoretical and practical applications, providing MSU Denver students with a solid foundation in mechanical engineering fundamentals, as well as hands-on laboratory work. This applied engineering emphasis allows students to experience the integration of engineering theory and practice. The MET program offers concentrations in mechanical and manufacturing engineering technology courses that keep students current with industry standards. Mechanical Engineering Technologists are employed in various industries ranging from large aerospace companies to small manufacturing and custom-design businesses applying engineering analysis to solve problems and design to enhance existing conditions. The Mechanical Engineering Technology program at MSU Denver is aimed to educate students in the theoretical and applied skillsets necessary to work in a wide range of technology industry positions.

Under the revised rules and regulations of the Colorado State Board for Professional Engineers and Professional Land Surveyors, MET students at MSU Denver pursuing their Professional Engineering license may take the Fundamentals of Engineering Examination within 30 semester hours of graduation.

This program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202, and Telephone: (410) 347-7700 (abet.org). ABET, Inc. was formally known as Accreditation Board for Engineering and Technology, Inc.

### Student Outcomes

1. an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;
2. an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;
3. an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and
5. an ability to function effectively as a member of a technical team.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 128-129 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree.
- Any course used to satisfy a prerequisite for an MET course must be passed with a grade of C or better.
- All MTH, PHY, CHE courses must be passed with a grade of "C-" or better
- Students must achieve a cumulative GPA of 2.0 for all MET core and concentration courses.
- A grade of "C" or better is required for all minor courses.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1400 - Precalculus Mathematics (the sequence of MTH 1110 - College Algebra for Calculus and MTH 1120 - College Trigonometry may be substituted for MTH 1400)
- Arts and Humanities (6 credits)
  - **Recommended:** PHI 1030 - Introduction to Ethics or PHI 3360 - Business Ethics
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:**
    - PHY 2311 - General Physics I
    - PHY 2321 - General Physics I Laboratory
    - PHY 2331 - General Physics II
    - PHY 2341 - General Physics II Laboratory
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ECO 2020 - Principles of Microeconomics and IND 2810 - Technology and Design: Global Perspectives
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Ancillary Courses: 14 credits

All students must complete the following courses. These courses can also count towards the General Studies Requirements.

- MTH 1400 - Precalculus Mathematics **Credits:** 4 or (the sequence of MTH 1110 - College Algebra for Calculus and MTH 1120 - College Trigonometry may be substituted for MTH 1400)
- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1

- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1

### Required MET Core Courses: 66 credits

- CET 2150 - Mechanics I-Statics **Credits:** 3
- CET 3135 - Mechanics of Materials with Laboratory **Credits:** 4
- CHE 1100 - Principles of Chemistry **Credits:** 4
- CHE 1150 - Principles of Chemistry Laboratory **Credits:** 1
- EET 2000 - Electric Circuits and Machines **Credits:** 3
- EET 2350 - Advanced Technical Programming **Credits:** 3
- EET 3010 - Industrial Electronics **Credits:** 4  
or
- EET 3730 - Process Control Systems **Credits:** 2  
and
- EET 3740 - Programmable Logic Controllers **Credits:** 2
- JMP 2610 - Introduction to Technical Writing **Credits:** 3
- MET 1000 - Introduction to Mechanical Engineering Technology **Credits:** 3  
or
- MET 1040 - Introduction to Engineering **Credits:** 3
- MET 1010 - Manufacturing Processes **Credits:** 3
- MET 1200 - Technical Drawing I **Credits:** 3
- MET 1210 - 3D Modeling **Credits:** 3
- MET 1310 - Principles of Quality Assurance **Credits:** 3
- MET 2200 - Materials of Engineering **Credits:** 3
- MET 3110 - Thermodynamics **Credits:** 3
- MET 3160 - Mechanics II-Dynamics **Credits:** 3
- MET 3185 - Fluid Mechanics **Credits:** 3
- MET 3410 - Geometric Dimensioning and Tolerancing **Credits:** 3
- MET 4000 - Project Engineering **Credits:** 3
- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4

Select one of the following two concentrations:

### Manufacturing Concentration: 22 credits

- MET 2010 - CNC Machining & Inspection **Credits:** 3
- MET 3000 - Manufacturing Analysis **Credits:** 4
- MET 3250 - Tool Design and Production Tooling **Credits:** 3
- MET 3300 - Statistical Process Control **Credits:** 3
- MET 3330 - Robotics for Manufacturing **Credits:** 3
- MET 3XXX Upper Division Elective **Credits:** 3
- MET 4080 - Computer Aided Manufacturing **Credits:** 3

## Mechanical Concentration: 21 credits

- MET 3070 - Machine Design **Credits: 3**
- MET 3125 - Heat Transfer with Laboratory **Credits: 3**
- MET 3320 - Instrumentation Laboratory **Credits: 3**
- MET 3XXX Upper Division Electives **Credits: 6**
- MET 4070 - Computer Aided Design **Credits: 3**
- MET 4280 - Advanced Energy Technology **Credits: 3**

## Senior Experience: 3 credits

- MET 4100 - Senior Project I **Credits: 1**
- MET 4110 - Senior Project II **Credits: 2**

## Summary of Requirements

### Mechanical Engineering Major with Manufacturing Concentration

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	14 credits
Required MET Core Courses	66 credits
Manufacturing Concentration	22 credits
Senior Experience	3 credits
<b>Total for the Mechanical Engineering Major, B.S., Manufacturing Concentration</b>	<b>Minimum of 129 credits</b>

### Mechanical Engineering Major with Mechanical Concentration

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	14 credits
Required MET Core Courses	66 credits
Mechanical Concentration	21 credits
Senior Experience	3 credits
<b>Total for the Mechanical Engineering Major, B.S., Mechanical Concentration</b>	<b>Minimum of 128 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 9 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Mathematics Minor\*\* (Optional) recommended for MET Students

Required Technical Studies:

- MTH 1410 - Calculus I **Credits: 4**
- MTH 2410 - Calculus II **Credits: 4**
- MTH 2420 - Calculus III **Credits: 4**
- MTH 3130 - Applied Methods in Linear Algebra **Credits: 4**
- MTH 3210 - Probability and Statistics **Credits: 4**
- MTH 3420 - Differential Equations **Credits: 4**
- CS 1050 - Computer Science 1 **Credits: 4 \***  
or
- CSS 1247 - Introduction to Programming: Visual Basic **Credits: 4**

**Total for Minor: 28 credits**

\* May be used to satisfy computer programming requirement with approval of MET advisor.

\*\* The minor may not be used to replace the concentration. Some of the classes are required for the MET major.

## Mechanical Engineering Technology Minor

A grade of C or better must be earned in each course required for the minor. Students should note that programs differ in the minimum grade required.

### Required Courses:

- MET 1000 - Introduction to Mechanical Engineering Technology **Credits: 3**
- MET 1010 - Manufacturing Processes **Credits: 3**
- MET 1310 - Principles of Quality Assurance **Credits: 3**
- MET 2200 - Materials of Engineering **Credits: 3**  
Upper-division MET Electives

**Total: 18**

## Sustainable Systems Engineering Major, B.S.

[Department of Engineering and Engineering Technology](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Sustainable Systems Engineering (SSE) program offers the Bachelor of Science degree. Sustainable Systems Engineering (SSE) is a broad discipline that addresses the engineering of large, complex systems and the integration of the many subsystems that comprise the larger system. The program integrates Engineering and Engineering Technology department programs with other Metropolitan State University of Denver (MSU Denver) programs from the Earth and

Atmospheric Sciences, Political Science, Business Management, Communication Arts and Sciences, and other departments, to prepare students for future large prospective and complex systems sustainable development challenges.

The SSE Program focuses on the interactions of engineering, society and ecological systems. Specifically, students in the program study the relationship of engineering to economic development, environmental impact, social structure, and the sustainability of natural resources. Students examine how engineering activities influence human well-being as a whole, complex system. The program provides students with knowledge and methods to analyze and solve sustainable development problems. The program description of the Sustainable Systems Engineering (SSE) is: apply a holistic and systemic approach to solving problems and move beyond the tradition of breaking designs down into disconnected parts.

Sustainable development is considered to be one of the fundamental criteria for engineering practices. Engineers are required to play a leading role in planning, designing, building, manufacturing, and ensuring a sustainable future. The SSE program will prepare our graduates in a better position in pursuing graduate studies or engineering licensure after graduating from MSU Denver. In addition, the graduates will be able to join the workforce as sustainable system engineers, who are expected to work on or lead projects requiring a systemic and interdisciplinary approach to prevent the mismatch between a sophistication of individual discipline decisions and complex situations.

The educational approach incorporates fundamental engineering theories, laboratory works, communications and social science to establish essential sustainable systems concepts. The engineering core component will provide solid training on the majority of the subjects required by Fundamental Engineering (FE) exam.

Students are encouraged to enroll in an internship/cooperative education program through the University's Applied Learning Center to gain valuable work experience.

Students majoring in Sustainable Systems Engineering must meet the following curriculum and are required to complete all general study courses, program pre-requisite courses and core courses with a grade required for graduation. Technical elective courses must be approved by the program coordinator or department chair.

Under the revised rules and regulations of the Colorado State Board for Registration for Professional Engineers and Professional Land Surveyors, students within 30 semester hours of graduation may take the Fundamentals of Engineering Examination.

## Student Outcomes

Student outcomes are used to evaluate the students and support the program educational objectives. The students in the Environmental Engineering program are expected to attain the outcomes (1) through (7) as defined by ABET Criterion 3, Student Outcomes.

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 128 semester hours are required for graduation.
- Any course identified in the SSE major core must be passed with a grade of "C" or better. Students should note that programs differ in the minimum grade required.
- SSE majors must comply with all University General Studies requirements.
- This is an extended major, therefore a minor is not required to fulfill degree requirements.
- The students may refer to program flowchart or consult with an advisor for degree planning.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1410 - Calculus I
- Arts and Humanities (6 credits)
- Historical (3 credits)

- Natural and Physical Sciences (6 credits)
  - **Recommended:**
    - CHE 1100 - Principles of Chemistry
    - CHE 1150 - Principles of Chemistry Laboratory
    - PHY 2311 - General Physics I
    - PHY 2321 - General Physics I Laboratory
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** CET 3120 - Engineering Economy
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Prerequisite Courses: 17 credits

The department recommends that this requirement be met along with the General Studies requirements.

- CET 3120 - Engineering Economy **Credits: 3**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- MTH 1410 - Calculus I **Credits: 4**
- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**

### Required Courses: 80 credits

All students must complete the following courses.

- EVE 3200 - Environmental Sustainability in Urban Design **Credits: 3**
- MTH 2410 - Calculus II **Credits: 4**
- MTH 2420 - Calculus III **Credits: 4**
- MTH 3210 - Probability and Statistics **Credits: 4**
- MTH 3420 - Differential Equations **Credits: 4**
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**
- SSE 1040 - Life Cycle and Systems Engineering - An Introduction **Credits: 3**

- SSE 1215 - Engineering Graphics: Solid Modeling **Credits: 3**
- SSE 2000 - Engineering Safety and Quality Assurance **Credits: 3**
- SSE 2100 - Basic Electronic Systems **Credits: 3**
- SSE 2150 - Mechanics of Static Systems **Credits: 3**
- SSE 2200 - Materials Science **Credits: 3**
- SSE 2350 - Engineering Programming **Credits: 3**
- SSE 3000 - Fundamentals of Systems Design **Credits: 3**
- SSE 3070 - Machine Element and Mechanical Systems **Credits: 3**
- SSE 3135 - Strength of Materials with Laboratory **Credits: 4**
- SSE 3160 - Mechanics of Dynamic Systems **Credits: 3**
- SSE 3185 - Fundamental Fluid Mechanics with Laboratory **Credits: 4**
- SSE 3300 - Thermodynamics and Heat Transfer **Credits: 3**
- SSE 3730 - Control Systems **Credits: 2**
- SSE 4000 - Sustainable Systems Engineering **Credits: 3**
- SSE 4160 - Geotechnical Engineering with Laboratory **Credits: 4**
- SSE 4200 - Sustainable Development Strategy **Credits: 3**
- SSE 4280 - Energy and Power **Credits: 3**

### Elective Courses: 7 credits

Students are required to take at least 7 credit hours from the list below to complete their major.

- SSE 3100 - Mathematical Modeling **Credits: 1**
- SSE 3175 - Modeling Structural Systems **Credits: 3**
- SSE 3500 - Humanitarian Engineering **Credits: 3**
- SSE 4300 - Probabilistic Design Methodology **Credits: 3**
- SSE 4500 - Refurbishment of Structures **Credits: 3**
- SSE 4700 - Engineering Decision and Risk Analysis **Credits: 3**
- ENV 4200 - Environmental Policy and Planning **Credits: 3** \*\*
- MKT 3000 - Principles of Marketing **Credits: 3** \*\*
- PSC 3020 - Introduction to Public Administration **Credits: 3** \*\*

*\*\*These courses require prerequisites from outside SSE courses. Please check with the Department for more information.*

### Senior Experience: 3 credits

- SSE 4610 - Senior Design Project **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
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Multicultural Requirement	0-3 credits
Required Prerequisite Courses	17 credits
Required Courses	80 credits
Major Electives	7 credits
Senior Experience	3 credits
<b>Total for the Sustainable Systems Engineering Major, B.S.</b>	<b>Minimum of 128 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 12 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Health Institute

### Mission

The MSU Denver Health Institute is a collaboration of ten departments that serve students entering health-related professions. Through educating Colorado's emerging health workforce, our mission is to revolutionize health in Colorado by breaking barriers, empowering communities, fostering collaboration and embracing diversity.

One of the ways we are accomplishing our mission is through breaking down silos. Interdisciplinary teamwork within the Institute provides the next generation of healthcare leaders the training required to tackle health care costs and improve outcomes. Through innovative and integrated curriculum that leverages emerging technology and real-life simulation, students gain the communication skills needed to problem-solve across disciplines, the separation of physical and mental health, and traverse the complexity of healthcare systems.

We are also blurring the lines between academia and industry. Critical community and industry partnerships in physical and behavioral health provide students with hands-on experiences in a wide range of health professions. The opportunity to co-construct best practices in building strong and vital communities and addressing the needs of underrepresented populations, produces graduates who are well prepared to enter the workforce. Students are provided with the support to successfully navigate not only their own educational experience, but to effectively move into a health career and lead the change necessary to solve difficult problems.

The Institute combines educational excellence with cutting-edge whole-person, transprofessional, and culturally inclusive skills that distinguish our Health Institute alumni as leaders in health-related fields. For example, through the study of the social determinants of health or groundbreaking coursework (such as our developing Lifestyle Medicine curriculum), students engage with evidence-based scholarship that strives to not only treat challenging health issues but to foster healthy communities and culturally inclusive well-being.

## Departments

- [Department of Biology](#)
- [Department of Chemistry and Biochemistry](#)
- [Department of Health Professions](#)
- [Department of Human Performance and Sport](#)
- [Department of Human Services and Counseling](#)
- [Department of Nursing](#)
- [Department of Nutrition](#)
- [Department of Psychological Sciences](#)
- [Department of Social Work](#)
- [Department of Speech, Language, Hearing Sciences](#)

## Health Institute Initiatives and Links

Health Institute: <https://msudenver.edu/health-institute/>

Health Career Opportunities Program: <https://msudenver.academicworks.com/opportunities/2574>

Health Career Interest Program: <https://www.denverhealth.org/professionals/careers/healthcare-interest-program>

Peer Health Exchange: <https://msudenver.edu/health-institute/communitypartners/>

## Department of Health Professions

The Department of Health Professions offers the following programs:

- [Aging Services Leadership Certificate](#)
- [Aging Services Leadership Minor](#)
- [Health Care Information Systems, B.S.](#)
- [Health Care Management Major, B.S.](#)
- [Health Care Management Minor](#)
- [Health Data Science Certificate](#)
- [Integrative Health Care Major, B.S.](#)
- [Integrative Health Care Extended Major, B.S.](#)
- [Integrative Health Care Minor](#)
- [Lifestyle Medicine Major, B.S.](#)
- [Lifestyle Medicine Extended Major, B.S.](#)
- [Lifestyle Medicine Minor](#)
- [Public Health Major, B.A.](#)
- [Public Health Minor](#)
- [Pre-Healthcare Minor](#)
- [Wellness Coaching Certificate](#)

The purposes of the programs in the Department of Health Professions are to stimulate the personal and professional development of health care and recreation workers, to stimulate awareness of health care trends and issues, and to prepare health care professionals to cope with the future problems of health care delivery in a rapidly changing society.

The department offers three majors: a Bachelor of Science degree in Health Care Management, a Bachelor of Science degree in Integrative Healthcare, and a Bachelor of Arts degree in Recreation

Professions with either a Recreation Management or Therapeutic Recreation concentration. The department also offers minors in Health Care Management, Integrative Healthcare, and Recreation Services.

Students desiring to enter programs in the Department of Health Professions should seek academic advising from a faculty member in the department prior to registering for classes. Students are responsible for keeping themselves informed of the latest program changes. Current program materials are available in the health professions department.

## Health Care Management

The University's undergraduate degree program in health care management prepares students for direct entry into management within the health care field. By combining courses in health care management with other disciplines such as marketing, statistics, accounting, and microeconomics, the program gives students a strong foundation in management as it specifically relates to health care.

Students must earn a grade of "C" or better in all courses required for the major and minor (HCM and all required support courses) in order to progress through either program. Courses with grades of less than "C" must be repeated in order for the student to take any other courses for which the first course is a prerequisite.

Healthcare managers are employed in a variety of facilities and organizations: hospitals; nursing homes; health departments; educational institutions; health maintenance organizations; wellness programs; industrial health programs; the insurance industry; non-profit organizations, physician and dental practices; other types of medical corporations; and governmental agencies at local, state, and national levels.

A minor is required. The student selects a minor with approval of the faculty. Minors that complement the health care management major include, but are not limited to, Integrative Healthcare, Nutrition, Marketing, Information Systems, and Spanish. Students who are declared health care management majors and have an associate's degree in a health occupation may substitute up to 24 hours of selected, approved associate degree major courses in place of a minor.

Students who have attended the Paramedic School at the Denver Health Medical Center, obtained a Paramedic Certificate and received state licensure as a paramedic may use this in lieu of the minor.

The Health Care Management program is housed in the Department of Health Professions. For more information, call 303-615-1200.

## Educational Goals and Outcomes

The baccalaureate Health Care Management program has established the following student learning outcomes and organized them in six domains as follows:

Critical Thinking, Analysis and Synthesis - Understand cause and effect, view issues from different perspectives,

examine quantitative data, understand scientific method, and apply concepts to new issues.

Knowledge of the Healthcare Environment - Evaluate global health systems and understand multiple, interdependent components of the rapidly changing industry.

Business Knowledge and Skills - Apply knowledge of fundamental business operations (finance, accounting, marketing, economics, law, technology) to the management of health care.

Communication and Relationship Management - Demonstrate written and oral communication skills, demonstrate the ability to work effectively with others.

Professionalism and Leadership - Act in accordance with ethical and professional standards and apply management and leadership concepts for personal and business excellence.

Personal Growth and Development - Accept accountability of continued learning by acquiring knowledge, skills and abilities to meet the changing needs of self, client, management, and society.

## Assessment Methodology

Assessment and measurement of student attainment of skills, knowledge and abilities in the six competency domains is done by faculty throughout the program. Student self-assessment of individual competencies is done at the beginning and the end of the program. In addition, students are asked to self-assess at the end of the internship experience. The internship preceptors conduct an assessment, as well. Measurement and assessment of student attainment of skills, knowledge and abilities in the six competency domains is done by faculty throughout the program.

## Integrative Healthcare

The Integrative Healthcare program offers students courses that integrate the most recent scientific evidence with the oldest of healing traditions. The program draws from disciplines such as health education services, health care management, biology, chemistry, and nutrition. Students examine the diverse factors that impinge on an individual's health and well-being. Students receive a broad-based understanding of the principles of human health and disease, the theories underlying healing practices, and the scientific research methods needed to evaluate the latest techniques in this dynamic field.

The Integrative Healthcare program offers a major, an extended major and a minor. The major and extended major are designed for students interested in working in the expanding complementary and alternative health care field. The minor is designed for students who recognize the increased emphasis on wellness in several professional fields and/or for health-conscious individuals who wish to establish a self-enhancement program. The minor can complement a major that is relevant to the student's career goals.

Minors that would complement this major include, but are not limited to, Health Care Management, Nutrition, Recreation Services, Journalism, Spanish, Marketing, Human Services, Anthropology, Biology, and Chemistry.

Students must earn a grade of "C" or better in all courses required for the major in order to progress through the program. Courses with grades of less than "C" must be repeated in order for the student to take any other courses for which the first course is a prerequisite. All general requirements of the University for a Bachelor of Science degree must be met prior to graduation.

The Integrative Healthcare program is housed in the Department of Health Professions. Students enrolling in the major or minor must confer with a department advisor as soon as possible. For more information, call 303-615-1200.

## Educational Goals and Outcomes

The baccalaureate Integrative Healthcare program has established the following outcomes for all graduates. The Integrative Healthcare graduate will be prepared to:

- Demonstrate an attitude of caring, flexibility, and self-confidence in a health care setting.
- Act in an ethical and legal manner in applying the leadership roles of collaborator, resource person, change agent, teacher, and advocate.
- Integrate a variety of communication skills, media techniques, and strategies effectively and appropriately to influence health.
- Assess health situations and recommend appropriate healing practices.
- Evaluate global health systems to identify social and health-care trends in order to anticipate the future of health care.
- Apply scientific method to health-care problems.
- Apply knowledge of natural science principles in a healing practice.

## Recreation Professions

Students may select a major in Recreation Professions with a concentration in one of three areas: Recreation Management, Therapeutic Recreation Services, or Recreation Generalist. Since this is an extended major, no minor field of study is required. The Recreation Professions program is nationally accredited, meeting the standards set by the Council on Accreditation, National Recreation and Park Association. The Recreation Services Minor is an excellent complement to majors in Criminal Justice, Human Performance and Sport, Education, Human Services, Psychology, or Health Professions.

The Recreation Professions major prepares students with the knowledge and skills for employment in municipal, commercial/private, outdoor, clinical, military, campus, park, and not-for-profit settings. Job titles vary but include recreation director, aquatics specialist, recreational therapist, sports coordinator, facility manager, camp director, resort manager, park ranger, youth recreation specialist, and armed forces recreation administrator, to name a few.

In conjunction with the core requirements, the student selects either the Recreation Management, Therapeutic Recreation Services, or Recreation Generalist concentration. The concentration provides the student with specific specialized knowledge and skills for

employment and certification. Students passing the Therapeutic Recreation Services concentration meet eligibility requirements to sit for the national certification examination administered through the National Council for Therapeutic Recreation Certification (nctrc.org) and upon passing the test, become Certified Therapeutic Recreation Specialists. Upon graduation, all majors are eligible to sit for the national examination to become Certified Park and Recreation Professionals.

## Aging Services Leadership Certificate

The Aging Services Leadership (ASL) certificate assists individuals interested in gaining knowledge pertaining to aging, eldercare, and gerontology. The certificate will prepare individuals to understand the cultural, physical, and social aspects of aging along with the aspects of how aging affect populations. The certificate will prepare individuals to apply administrative principles required in the management of aging services such as nursing home, long term care settings, and home health services. The certificate includes required pre-requisite and core courses along with elective courses in which students can tailor the certificate to meet specifications of their career goals.

## Advising

Students can contact the Department of Health Professions at 303-615-1200 for advising.

## Important Notice:

- Completion of this certificate does not guarantee admission into any nursing or health professions undergraduate or graduate program.
- Students are responsible for contacting the nursing or health profession program to which they are applying regarding specific prerequisite courses required by that program.
- Students should also explore the requirements for Licensure as a Nursing Home Administrator in their state.

## Academic Policies:

Academic policies and the Student Code of Conduct will be employed to all MSU Denver students, regardless of level. Access the Student Code of Conduct .

### **Total: 24 credits**

*Some courses might require additional prerequisite(s). Please refer to the University Catalog for additional information.*

*Cross-listed course credit will be granted for only one prefix: HPS or ITP.*

## Required Prerequisites

6 Credit Hours

SOC 1010 - People, Power, and Progress **Credits: 3**  
PSY 1001 - Introductory Psychology **Credits: 3**

## Required Core Courses

9 Credit Hours

- HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3**
- SOC 1040 - Introduction to Social Gerontology **Credits: 3**
- SOC 3040 - Sociology of Aging **Credits: 3**

## Elective Courses

9 Credit Hours Required

(3 Credit Hours Must Be Upper Division)

- ANT 3480 - Cultural Diversity in Health and Illness **Credits: 3**
- COMM 3220 - Communication and the Elderly **Credits: 3**
- CJC 4220 - Criminal Justice and the Elderly **Credits: 3**
- EXS 3790 - Fitness Programming for Children, Adolescents, and Older Adults **Credits: 3**
- FIN 3450 - Retirement Planning and Employee Benefits **Credits: 3**
- HCM 3150 - Health Care Organization and Management **Credits: 3**
- HCM 3700 - Health Disparities in the U.S. **Credits: 3**
- HCPS 3000 - Introduction to Patient Navigation **Credits: 3**
- HSL 1420 - Activity and Fitness Programs for the Elderly **Credits: 2**
- HSP 3610 - Financial Accountability and Organizational Control in Nonprofit Organizations **Credits: 3**
- HSP 4520 - Grief Counseling **Credits: 3**
- ITP 1700 - Medical Terminology **Credits: 2**
  
- ITP 2950 - Wellness Coaching I **Credits: 3**  
or  
HPS 2700 - Wellness Coaching I **Credits: 3**
  
- ITP 3100 - Health Education and Counseling **Credits: 3**
- ITP 3200 - Ethics in Health Care **Credits: 3**
- ITP 3700 - Physiology of Aging **Credits: 3**
  
- ITP 4400 - Wellness Coaching II **Credits: 3**  
or  
HPS 4700 - Wellness Coaching II **Credits: 3**
  
- MKT 3190 - Marketing for Social Good **Credits: 3**
- NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3**
- PSY 2270 - Death and Dying **Credits: 3**
- PSY 3270 - Adulthood and Aging **Credits: 3**
- PSY 3540 - Cognitive Aging **Credits: 3**
- RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits: 3**
- RECR 4630 - Recreation Programs for the Older Adult **Credits: 3**
- SOC 3100 - Death and Dying **Credits: 3**
- SOC 3810 - Population Issues: Life, Death and Migration **Credits: 3**
- SWK 3030 - Social Work with Older People **Credits: 3**

## Aging Services Leadership Minor

The Aging Services Leadership minor assists individuals interested in gaining knowledge pertaining to aging, eldercare, and gerontology. The minor prepares individuals to understand the cultural, physical, and social aspects of aging, along with the aspects of how aging affects populations. The minor prepares individuals to apply administrative principles required in the management of aging services, such as nursing homes, long-term care settings, and home health services. The minor provides required core courses, along with elective course in which students can tailor the minor to meet specifications of career goals. Potential majors to complement this minor include, but are not limited to Anthropology, Health Care Management, Integrative Health Care, Nursing, Psychology, Recreation Profession, Social Work, and Sociology. The minor is also applicable to individuals who plan to apply to graduate programs in health care or an aging field of study.

## Advising

Students can contact the Department of Health Professions for advising at 303-615-1200. New or transfer students interested in the Aging Services Leadership minor can also seek advising through the College of Professional Studies Advising Office at 303-615-1099.

## Important Notice

Completion of this minor does not guarantee admission into any nursing or health professions graduate program. Students are responsible for contacting the nursing or health professions graduate program to which they are applying regarding specific prerequisite courses required by that program.

## Course Selection

Students must select 18 credit hours from the following courses including at least 3 hours of upper-division credit. Courses used for a major or minor other than the Aging Services Leadership minor or used to satisfy General Studies requirements cannot be used for the Aging Services Leadership minor.

## Required Courses

- SOC 1040 - Introduction to Social Gerontology **Credits: 3**
- HCM 3150 - Health Care Organization and Management **Credits: 3**
- HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3**
- SOC 3040 - Sociology of Aging **Credits: 3**

**Subtotal: 12 credits**

## Elective Courses

Choose at least 6 credits from the following (at least 3 hours must be upper division):

ANT 3480 - Cultural Diversity in Health and Illness **Credits:** 3  
 COMM 3220 - Communication and the Elderly **Credits:** 3 \*  
 CJC 4220 - Criminal Justice and the Elderly **Credits:** 3 \*  
 FIN 3450 - Retirement Planning and Employee Benefits  
**Credits:** 3  
 FIN 4400 - Estate Planning **Credits:** 3  
 HCM 3030 - Health Care Jurisprudence **Credits:** 3 \*  
 HCM 3700 - Health Disparities in the U.S. **Credits:** 3  
 HSP 4520 - Grief Counseling **Credits:** 3  
 ITP 1700 - Medical Terminology **Credits:** 2

ITP 2950 - Wellness Coaching I **Credits:** 3 \*\*  
 OR  
 HPS 2700 - Wellness Coaching I **Credits:** 3 \*\*

ITP 3100 - Health Education and Counseling **Credits:** 3 \*  
 ITP 3200 - Ethics in Health Care **Credits:** 3 \*  
 ITP 3700 - Physiology of Aging **Credits:** 3 \*

ITP 4400 - Wellness Coaching II **Credits:** 3 \*, \*\*  
 OR  
 HPS 4700 - Wellness Coaching II **Credits:** 3 \*, \*\*

NUT 3050 - Concepts of Lifecycle Nutrition **Credits:** 3 \*  
 PSY 2270 - Death and Dying **Credits:** 3 \*  
 PSY 3270 - Adulthood and Aging **Credits:** 3 \*  
 PSY 3540 - Cognitive Aging **Credits:** 3 \*  
 RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits:**  
 3  
 RECR 4630 - Recreation Programs for the Older Adult **Credits:**  
 3  
 SOC 3100 - Death and Dying **Credits:** 3 \*  
 SOC 3810 - Population Issues: Life, Death and Migration  
**Credits:** 3 \*  
 SWK 3030 - Social Work with Older People **Credits:** 3

**Subtotal: 6 credits**

**Total: 18 credits**

\* Courses requiring additional prerequisite(s)

\*\* Credit will be granted for only one prefix: HPS or ITP.

## Health Care Information Systems, B.S.

[Department of Health Professions](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

Health Care Information Systems (HCIS) entails a wide array of skills needed to use and support computer systems used by hospitals, clinics, and health systems to provide care to the sick and injured. The field calls for professionals with knowledge of the health care industry, network administration, database administration, data

querying and analysis, and support of clinical information systems, including the electronic medical record (EMR). Graduates will be qualified to take a leadership role in the information systems services of a health care organization, a health data analysis team, or an entrepreneurial venture in the health care industry.

### Student Outcomes

- Describe the various components of the health care system in the United States and the interrelationships between such components;
- Demonstrate the ability to assess, prioritize, and formulate a management response to issues in legal compliance, human resources, financial management, and formulate a strategic plan for a health care organization;
- Define the various components of the information systems used in a health care organization, the data they gather, their use in providing patient care and supporting administrative functions, the interrelationships between applications, and how combinations of data from various applications can be used to address management challenges in today's health care organization;
- Demonstrate basic skills in computer device networking, telecommunications, information systems security, database administration, clinical information application support, and business web site design; and
- Synthesize understanding of a business or clinical issue in a health care organization and formulate a plan of action to use information systems resources to address that issue.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

A total of 120 semester hours are required for graduation.

A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

A minor is not required for this program.

Students can contact the Department of Health Professions at 303-615-1200 or the Department of Computer Information Systems at 303-615-0660 for advising.

New or transfer students interested in the Bachelor of Science in Health Care Information Systems can also seek advising through the College of Health and Applied Sciences Advising Office at 303-615-1099.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Core Courses: 51 credits

- (24 semester hours from the computer information systems curriculum)
- CIS 2010 - Foundations of Information Systems **Credits: 3**
  - CIS 2110 - Structured Problem Solving in Information Systems **Credits: 3**
  - CIS 3030 - Business Web Page Development **Credits: 3**
  - CIS 3060 - Database Management Systems **Credits: 3**
  - CIS 3230 - Telecommunication Systems and Networking **Credits: 3**
  - CIS 3460 - Data Warehousing and Mining **Credits: 3**
  - CIS 3500 - Information Systems Security **Credits: 3**
  - CIS 4030 - Web Site Administration **Credits: 3**
- and
- (27 semester hours from the health care management curriculum)
- HCM 3030 - Health Care Jurisprudence **Credits: 3**
  - HCM 3150 - Health Care Organization and Management **Credits: 3**
  - HCM 3400 - Human Resources Management in Health Care **Credits: 3**
  - HCM 3500 - Health Care Research Methods **Credits: 3**
  - HCM 3600 - Health Information Systems **Credits: 3**
  - HCM 4030 - Financial Management in Health Care **Credits: 3**
  - HCM 4150 - Electronic Medical Record Applications and Support **Credits: 3**
  - HCM 4300 - Strategic Management in Health Care **Credits: 3**
  - HCM 4350 - Health Care Information Systems Applications **Credits: 3**

### Elective Courses: 9 credits

Students select nine (9) semester hours of electives from the following list:

- CIS 3050 - Fundamentals of Systems Analysis and Design **Credits: 3 \***
- CIS 3145 - Business Application Development **Credits: 3 \***
- CIS 4060 - Advanced Database Management Systems **Credits: 3 \***
- CIS 4260 - Database Administration **Credits: 3 \***
- CIS 4280 - Network Installation and Administration **Credits: 3 \***
- CIS 4370 - Data Science and Big Data Analytics **Credits: 3 \***
- HCM 2500 - Health Care Management Foundations, Professionalism, and Applications **Credits: 3 \***
- HCM 3200 - Managing Quality in Health Care **Credits: 2 \***
- HCM 3550 - Leadership in Health Care **Credits: 1 \***
- HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3 \***

### Senior Experience: 3 credits

Students select a minimum of 3 semester hours from:

- CIS 4920 - Health Care Information Systems Internship **Credits: 3**
- or
- HCM 4920 - Health Care Information Systems Internship **Credits: 3**

*\*Courses requiring additional prerequisite*

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Core Courses	51 credits
Required Electives	9 credits
Senior Experience	3 credits
Unrestricted Electives	21-24 credits
<b>Total for the Health Care Information Systems Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Health Care Management Major, B.S.

[Department of Health Professions](#)

Available Program Format(s): [Online](#), [In-Person](#), [Hybrid](#)

## About the Program

The Health Care Management program has been an icon for excellence in health care management education for over four decades.

The program provides students with course and experiential learning. Coursework includes health care foundations, organization and management, jurisprudence, global health, aging services, and leadership. Combined with other disciplines, such as marketing, information technology, accounting, and economics, the program prepares students for direct entry into management within the health care field, continuation to graduate school, and/or advancement within the health care field.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Support Courses: 12-13 credits

ACC 2010 - Principles of Accounting I **Credits: 3**  
ECO 2020 - Principles of Microeconomics **Credits: 3** \*\*  
MKT 3000 - Principles of Marketing **Credits: 3**  
MTH 1210 - Introduction to Statistics **Credits: 4** \*\*\*  
or  
PSY 2310 - Statistics for the Social and Behavioral Sciences  
**Credits: 3**

\* Meets Multicultural Requirement  
\*\* Meets General Studies Social and Behavioral Sciences Requirement  
\*\*\* Meets General Studies Quantitative Literacy Requirement

## Required Courses: 36 credits

HCM 2010 - Global Health Systems **Credits: 3**  
HCM 2500 - Health Care Management Foundations, Professionalism, and Applications **Credits: 3**  
HCM 3030 - Health Care Jurisprudence **Credits: 3**  
HCM 3150 - Health Care Organization and Management **Credits: 3**  
HCM 3400 - Human Resources Management in Health Care **Credits: 3**  
HCM 3500 - Health Care Research Methods **Credits: 3**  
HCM 3600 - Health Information Systems **Credits: 3**  
HCM 3700 - Health Disparities in the U.S. **Credits: 3** \*  
HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3**  
HCM 4030 - Financial Management in Health Care **Credits: 3**  
HCM 4040 - Health Care Economics **Credits: 3**  
HCM 4300 - Strategic Management in Health Care **Credits: 3**

## Electives: 3 credits

Choose 3 credits from the following electives:

HCPS 3000 - Introduction to Patient Navigation **Credits: 3**  
HCM 3100 - Entrepreneurship in Health **Credits: 1**  
HCM 3200 - Managing Quality in Health Care **Credits: 2**  
HCM 3550 - Leadership in Health Care **Credits: 1**  
PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits: 3**

PUB 3020 - Introduction to Epidemiology in Public Health  
**Credits: 3**  
 PUB 3030 - Essentials of Environmental Health in Public Health  
 Practices **Credits: 3**  
 HCM 3750 - Professional Practice Management **Credits: 1**  
 HCPS 4000 - Health Care Operations **Credits: 3**  
 HCPS 4010 - Evidence Based Health Care Delivery **Credits: 3**

**Subtotal: 3 credits**

## Senior Experience: 6 credits

HCM 4610 - HCM Internship II **Credits: 6**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Support Courses	12-13 credits
Required Courses	36 credits
Required Electives	3 credits
Senior Experience	6 credits
Minor and Unrestricted Electives	26-39 credits
Total for the Health Care Management Major, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Health Care Management Minor

A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

## Required Courses

HCM 2010 - Global Health Systems **Credits: 3**  
 HCM 3150 - Health Care Organization and Management  
**Credits: 3**

**Subtotal: 6 credits**

## Additional Course Requirements

Choose a minimum of 12 credits from the following electives:

HCM 3030 - Health Care Jurisprudence **Credits: 3**  
 HCM 3100 - Entrepreneurship in Health **Credits: 1**  
 HCM 3200 - Managing Quality in Health Care **Credits: 2**  
 HCM 3400 - Human Resources Management in Health Care  
**Credits: 3**

HCM 3500 - Health Care Research Methods **Credits: 3 \*\***  
 HCM 3550 - Leadership in Health Care **Credits: 1**  
 HCM 3600 - Health Information Systems **Credits: 3**  
 PUB 3010 - Community Health Survey, Assessment and Health  
 Improvement Planning **Credits: 3**  
 PUB 3020 - Introduction to Epidemiology in Public Health  
**Credits: 3**  
 PUB 3030 - Essentials of Environmental Health in Public Health  
 Practices **Credits: 3**  
 HCM 3700 - Health Disparities in the U.S. **Credits: 3 \***  
 HCM 3750 - Professional Practice Management **Credits: 1**  
 HCM 3800 - Long-Term Care: Managing Across the Continuum  
**Credits: 3**  
 HCM 3830 - Analytical Methods in Health Data **Credits: 3**  
 HCM 3840 - Statistical Methods in Health Data **Credits: 3**  
 HCM 3850 - Database Systems in Health Care **Credits: 3**  
 HCM 3860 - Health Care Business Intelligence **Credits: 3**  
 HCM 4030 - Financial Management in Health Care **Credits: 3**  
**\*\***  
 HCM 4040 - Health Care Economics **Credits: 3 \*\***  
 HCM 4300 - Strategic Management in Health Care **Credits: 3**

**Subtotal: 12 credits**

**Total: 18 credits**

*\* meets Multicultural requirement*

*\*\* additional prerequisites required*

## Health Care Professional Services Major, B.S.

[Department of Health Professions](#)

Available Program Format(s): [Online](#),  
[In-Person](#), [Hybrid](#)

[College of Health and Applied Sciences](#)

## About the Program

The Bachelor of Science in Health Care Professional Services is a degree program designed for professionals on the front lines of health care delivery wishing to have baccalaureate level training to maintain professional certification such as in the allied health professions. Allied health professionals are involved with the delivery of health or related services pertaining to the identification, evaluation, and prevention of diseases and disorders; dietary and nutrition services; rehabilitation; and health systems management. The Bachelor of Science in Health Care Professional Services degree program provides a broad-based foundation in: 1) global and national healthcare issues, disparities, and trends, 2) ethical and legal issues, 3) health promotion and disease prevention, 4) evidence-based practice, 5) health care research, 6) health care systems management, 7) health care quality, 8) holistic health, and 9) public health. The program is designed to articulate with Associate of Arts allied health related degree programs at community colleges or student's new to the health field.

## Student Outcomes

- Acquire the skills employers demand in critical areas such as: health disparities, health care systems, health care operations management, health care jurisprudence, health care quality, health care ethics, health care leadership and public health;
- Gain knowledge on current industry insights and the latest trends in health care professional services;
- Meet societal and health care delivery demands;
- Assume supervisory, management, and/or educational positions;
- Pursue graduate education in the health care field;
- Work in a variety of settings with diverse patients, families, and communities;
- Change careers within the industry to work for insurance companies, government agencies, or non-profit associations; and contribute to the field as diverse professionals assisting in diminishing health disparities and creating a healthier nation.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.
- Students can contact the Department of Health Professions at 303-615-1200 for advising.
- New or transfer students interested in the Bachelor of Science in Health Care Professional Services can also seek advising through the College of Health and Applied Sciences Advising Office at 303-615-1099.

### Prior Learning Assessment Information

A Prior Learning Assessment (PLA) is available for HCM 3600 Health Care Information Systems and ITP 1700 Medical Terminology. The Center for Individualized Learning will work with students to understand and navigate the process. Once students have obtained permission to take the exam from the Prior Learning Specialist - Brandy Schooler, [bschool1@msudenver.edu](mailto:bschool1@msudenver.edu), the Application for Credit by Examination form will need to be completed. The student will take the form to the Bursar's Office to pay. After paying, the student will return with the receipt to the Center for Individualized Learning and then the student will need to set up an appointment with the MSU Denver Assessment and Testing

Center. They will verify the student's identification, provide a secure, quiet space to take the exam and at a mutually acceptable time.

The test will be timed and you cannot use any materials (books, notes, Internet) while taking the exam. The test will be returned to the Department for grading. A faculty member in the Program or the Department will determine if you have passed the examination with a grade sufficient to obtain credit. Signatures are needed from the faculty member, Chair, and Dean, so that the form can be sent to the registrar to enter credit on the student's transcript. The student may take the examination a maximum of two times.

The cost of the credits is half the tuition for the course and must be paid whether or not the examination is passed. You will receive 3 credits on a pass/fail basis. These credits are treated as non-resident (transfer) credits and will not count towards the 30 minimum resident credits required for a Bachelor's degree at MSU Denver.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Pick One: 3 credits

ITP 1600 - Herbal Medicine **Credits: 3**

or

ITP 2500 - Complementary and Alternative Medical Therapies **Credits: 3**

or

ITP 2810 - Men Across Cultures **Credits:** 3  
 or  
 ITP 2950 - Wellness Coaching I **Credits:** 3

SOC 3800 - Health and Healers **Credits:** 3 \* (Pre-req SOC 1010)

## Senior Experience: 6 credits

HCM 4610 - HCM Internship II **Credits:** 6

## Health Care Professional Services Required

Courses: 32 credits

HCM 2010 - Global Health Systems **Credits:** 3  
 HCM 2500 - Health Care Management Foundations, Professionalism, and Applications **Credits:** 3  
 HCM 3150 - Health Care Organization and Management **Credits:** 3  
 HCM 3700 - Health Disparities in the U.S. **Credits:** 3  
 HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits:** 3 (to meet the Multicultural requirement) \*(Pre-req HCM 3150)  
 HCPS 3000 - Introduction to Patient Navigation **Credits:** 3  
 HCPS 4000 - Health Care Operations **Credits:** 3  
 HCPS 4010 - Evidence Based Health Care Delivery **Credits:** 3  
 ITP 1700 - Medical Terminology **Credits:** 2 \*\*  
 ITP 2700 - Holistic Health **Credits:** 3  
 ITP 3200 - Ethics in Health Care **Credits:** 3 \* (Pre-reqs Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; ITP 1700 and ITP 2700)

## Electives: 3 credits

ANT 3480 - Cultural Diversity in Health and Illness **Credits:** 3  
 HCM 3030 - Health Care Jurisprudence **Credits:** 3  
 HCM 3100 - Entrepreneurship in Health **Credits:** 1  
 HCM 3200 - Managing Quality in Health Care **Credits:** 2  
 HCM 3400 - Human Resources Management in Health Care **Credits:** 3  
 HCM 3500 - Health Care Research Methods **Credits:** 3 \* (Pre-req MTH 1210 or PSY 2310)  
 HCM 3550 - Leadership in Health Care **Credits:** 1  
 HCM 3600 - Health Information Systems **Credits:** 3  
 PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits:** 3  
 PUB 3020 - Introduction to Epidemiology in Public Health **Credits:** 3  
 PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits:** 3  
 HCM 3750 - Professional Practice Management **Credits:** 1  
 HSP 3460 - Addiction, Immunity, and Infectious Diseases **Credits:** 2  
 ITP 3700 - Physiology of Aging **Credits:** 3 \* (Pre-reqs BIO 2310 and BIO 2320)  
 ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits:** 3 \* (Pre-reqs BIO 1080/1090, BIO 2310 and ITP 3200)  
 ITP 4100 - Women's Holistic Health **Credits:** 3 \* (Pre-reqs BIO 2320 and ITP 3200)  
 ITP 4400 - Wellness Coaching II **Credits:** 3 \* (Pre-req ITP 2950 or HPS 2700; ITP 3850)  
 PSY 3270 - Adulthood and Aging **Credits:** 3 \* (Pre-req PSY 1001)

## Notes

\* Indicates pre-requisite requirement. Check with academic advisor regarding pre-requisite requirement(s).  
 \*\* Has a Prior Learning Assessment

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirements	0-3 credits
Selected Course	3 credits
Required Courses	32 credits
Required Elective Courses	3 credits
Senior Experience	6 credits
Minor and Unrestricted Electives	40-49 credits
<b>Total for the Health Care Professional Services Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Health Data Science Certificate

Health Data Science is a field that focuses on applying information science methods to analyze and understand health care information, to progress from raw data to knowledge for improved decision-making and care delivery. Health Data Science uses interactive data analytic tools to explore large sets of health data to improve patient care and outcomes, improve effectiveness and efficiency of health operations, decrease costs and risk, and manage the health of populations.

Students with a background in Health Data Science may find opportunities in the following fields:

- Higher Education
- Research
- For-Profit Hospital systems
- Governmental Organizations
- Public Health

In addition, the below occupations illustrate some of the areas that this certificate will be useful:

Nurses, Physicians, Allied Health Professionals, Computer programmers and technology professionals.

### Admission and Graduation Requirements

This certificate program is being offered to all MSU Denver students regardless of major. The certificate will offer the enrolled student the opportunity to complete a certificate as they work towards degree completion.

#### To be awarded the program certificate, the student must meet the following requirements:

- Complete 18 credit hours of courses as recommended by the certificate program
- Achieve a GPA of 3.0 or higher in the certificate program courses
- Earn at least a "C" or better in each of the certificate courses; and
- Enroll in and complete a minimum of 60% of the required courses at MSU Denver.

### Advising and Contact Information

Individuals interested in this certificate program should contact the Department of Health Professions at 303-615-1200 to schedule an appointment for an advising session either in person by phone or via virtual conferencing.

## Required Courses

HCM 3150 - Health Care Organization and Management

**Credits: 3**

HCM 3600 - Health Information Systems **Credits: 3**

HCM 3830 - Analytical Methods in Health Data **Credits: 3**

HCM 3840 - Statistical Methods in Health Data **Credits: 3**

HCM 3850 - Database Systems in Health Care **Credits: 3**

HCM 3860 - Health Care Business Intelligence **Credits: 3**

**Total for Certificate: 18 credits**

## Integrative Health Care Extended Major, B.S.

[Department of Health Professions](#)

Available Program Format(s): [In-Person](#)

[College of Health and Applied Sciences](#)

## About the Program

The Integrative Health Care program offers students courses that integrate the most recent scientific evidence with the oldest of healing traditions. The program draws from disciplines such as health education services, health care management, biology, chemistry, and nutrition. Students examine the diverse factors that impinge on an

individual's health and well-being. Students receive a broad-based understanding of the principles of human health and disease, the theories underlying healing practices, and the scientific research methods needed to evaluate the latest techniques in this dynamic field.

The Integrative Health Care program offers a major, an extended major and a minor. The major and extended major are designed for students interested in working in the expanding complementary and alternative health care field. The minor is designed for students who recognize the increased emphasis on wellness in several professional fields and/or for health-conscious individuals who wish to establish a self-enhancement program. The minor can complement a major that is relevant to the student's career goals.

Minors that would complement this major include, but are not limited to, Health Care Management, Nutrition, Aging Services Leadership, Recreation Services, Journalism, Spanish, Marketing, Human Services, Anthropology, Biology, and Chemistry.

The Integrative Health Care program is housed in the Department of Health Professions. Students enrolling in the major or minor must confer with a department advisor as soon as possible. For more information, call 303-615-1200.

## Student Outcomes

The baccalaureate Integrative Health Care program has established the following outcomes for all graduates.

- Demonstrate an attitude of caring, flexibility, and self-confidence in a health care setting.
- Act in an ethical and legal manner in applying the leadership roles of collaborator, resource person, change agent, teacher, and advocate.
- Integrate a variety of communication skills, media techniques, and strategies effectively and appropriately to influence health.
- Assess health situations and recommend appropriate healing practices.
- Evaluate global health systems to identify social and health-care trends in order to anticipate the future of health care.
- Apply scientific method to health-care problems.
- Apply knowledge of natural science principles in a healing practice.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

A total of 120 semester hours are required for graduation.

- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Courses with grades of less than "C" (with a "C-" being lower than a "C") will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. Students should note that programs differ in the minimum grade required.
- A minor is not required for this major.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** Students may fulfill this requirement by taking MTH 1210 - Introduction to Statistics, which is required for the Integrative Health Care major since it is a prerequisite for HCM 3500 which is a required course for the major

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill part of this requirement by taking BIO 1080 - General Biology I and BIO 1090 - General Biology Laboratory I since these are prerequisites for BIO 2310 - Human Anatomy and Physiology I and BIO 2320 - Human Anatomy and Physiology II. These courses are prerequisites for ITP 4600 - Clinical Pathophysiology which is required for the Integrative Health Care Extended Major

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement by taking ITP 2500 - Complementary and Alternative Medical Therapies which is required for the major as well as ITP 1500 - Dynamics of Health which is a prerequisite for several of the required courses in the Integrative Health Care Extended Major

Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

**Recommended:** Students wishing to fulfill this requirement from a course that is an option for an elective for the major may wish to take ITP 2810 - Men Across Cultures

## Prerequisite Courses: 14-15 credits

BIO 2310 - Human Anatomy and Physiology I **Credits: 4**

BIO 2320 - Human Anatomy and Physiology II **Credits: 4**

ITP 1500 - Dynamics of Health **Credits: 3**

MTH 1210 - Introduction to Statistics **Credits: 4**

or

PSY 2310 - Statistics for the Social and Behavioral Sciences

**Credits: 3** (if MTH 1210 was not taken to meet the

General Studies Quantitative Literacy requirement)

## Core Courses: 26 credits

HCM 3500 - Health Care Research Methods **Credits: 3 \***

ITP 1700 - Medical Terminology **Credits: 2**

ITP 2000 - Integrative Health Foundations **Credits: 1**

ITP 2500 - Complementary and Alternative Medical Therapies **Credits: 3 \***

ITP 2700 - Holistic Health **Credits: 3**

ITP 3200 - Ethics in Health Care **Credits: 3**

ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits: 3**

ITP 4500 - Professionalism in Integrative Therapies **Credits: 1**

ITP 4600 - Clinical Pathophysiology **Credits: 4**

ITP 4991 - Integrative Capstone **Credits: 3**

\*Course has additional prerequisites.

## Program Electives: 33 credits

Choose at least 33 credits from the following list:

ITP 1600 - Herbal Medicine **Credits: 3**

ITP 2800 - Health, Society, and the Environment **Credits: 3**

ITP 2810 - Men Across Cultures **Credits: 3**

ITP 2820 - Anger In Men: A Whole Approach **Credits: 3**

ITP 2950 - Wellness Coaching I **Credits: 3**

ITP 3000 - Men's Health **Credits: 3**

ITP 3100 - Health Education and Counseling **Credits: 3**

ITP 3300 - Homeopathy **Credits: 3**

ITP 3400 - Ayurveda **Credits: 3**

ITP 3500 - Traditional Chinese Medicine **Credits: 3**

ITP 3600 - Energy Medicine **Credits: 3**

ITP 3700 - Physiology of Aging **Credits: 3**

ITP 3850 - Lifestyle Medicine **Credits: 3**

ITP 4000 - Pediatric Holistic Health **Credits: 3**

ITP 4100 - Women's Holistic Health **Credits: 3**

ITP 4200 - Aromatherapy **Credits: 3**

ITP 4300 - Botanical Pharmacology **Credits: 3**

ITP 4400 - Wellness Coaching II **Credits: 3**

ITP 4910 - Applications in Wellness Coaching **Credits: 3**

NUT 2040 - Introduction to Nutrition **Credits: 3**

## Senior Experience: 3 credits

ITP 4900 - Theories and Application of Knowledge for Integrative Health **Credits: 3**  
or  
ITP 4990 - Internship in Integrative Therapeutic Practices **Credits: 3-6**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Prerequisite Courses	14-15 credits
Core Courses	26 credits
Major Electives	33 credits
Senior Experience	3 credits
Unrestricted Electives	7-23 credits
<b>Total for the Integrative Health Care Extended Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Integrative Health Care Major, B.S.

[Department of Health Professions](#)

Available Program Format(s): [In-Person](#)

[College of Health and Applied Sciences](#)

## About the Program

The Integrative Health Care program offers students courses that integrate the most recent scientific evidence with the oldest of healing traditions. The program draws from disciplines such as health education services, health care management, biology, chemistry, and nutrition. Students examine the diverse factors that impinge on an individual's health and well-being. Students receive a broad-based understanding of the principles of human health and disease, the theories underlying healing practices, and the scientific research methods needed to evaluate the latest techniques in this dynamic field.

The Integrative Health Care program offers a major, an extended major and a minor. The major and extended major are designed for students interested in working in the expanding complementary and alternative health care field. The minor is designed for students who recognize the increased emphasis on wellness in several professional fields and/or for health-conscious individuals who wish to establish a

self-enhancement program. The minor can complement a major that is relevant to the student's career goals.

Minors that would complement this major include, but are not limited to, Health Care Management, Nutrition, Aging Services Leadership, Recreation Services, Journalism, Spanish, Marketing, Human Services, Anthropology, Biology, and Chemistry.

The Integrative Health Care program is housed in the Department of Health Professions. Students enrolling in the major or minor must confer with a department advisor as soon as possible. For more information, call 303-615-1200.

## Student Outcomes

The baccalaureate Integrative Health Care program has established the following outcomes for all graduates.

- Demonstrate an attitude of caring, flexibility, and self-confidence in a health care setting.
- Act in an ethical and legal manner in applying the leadership roles of collaborator, resource person, change agent, teacher, and advocate.
- Integrate a variety of communication skills, media techniques, and strategies effectively and appropriately to influence health.
- Assess health situations and recommend appropriate healing practices.
- Evaluate global health systems to identify social and health-care trends in order to anticipate the future of health care.
- Apply scientific method to health-care problems.
- Apply knowledge of natural science principles in a healing practice.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

A total of 120 semester hours are required for graduation. A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Courses with grades of less than "C" (with a "C-" being lower than a "C") will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. Students should note that programs differ in the minimum grade required. A minor is required for this major.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
Oral Communication (3 credits)  
Quantitative Literacy (3 credits)

**Recommended:** Students may fulfill this requirement by taking MTH 1210 - Introduction to Statistics, which is required for the Integrative Health Care major since it is one of the prerequisite options for HCM 3500 which is a required course for the major. Students can also take PSY 2310 - Statistics for the Social and Behavioral Sciences as a prerequisite for HCM 3500 though PSY 2310 does not fulfill the general studies quantitative literacy requirement.

Arts and Humanities (6 credits)  
Historical (3 credits)  
Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill part of this requirement by taking BIO 1080 - General Biology I and BIO 1090 - General Biology Laboratory I since these are prerequisites for BIO 2310 - Human Anatomy and Physiology I and BIO 2320 - Human Anatomy and Physiology II. These courses are prerequisites for ITP 4600 - Clinical Pathophysiology which is required for the Integrative Health Care Major

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement by taking ITP 2500 - Complementary and Alternative Medical Therapies which is required for the major as well as ITP 1500 - Dynamics of Health which is a prerequisite for several of the required courses in the Integrative Health Care major

Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

**Recommended:** Students wishing to fulfill this requirement from a course that is an option for an elective for the major may wish to take ITP 2810 - Men Across Cultures.

## Prerequisite Courses: 14-15 credits

BIO 2310 - Human Anatomy and Physiology I **Credits:** 4

BIO 2320 - Human Anatomy and Physiology II **Credits:** 4  
ITP 1500 - Dynamics of Health **Credits:** 3  
MTH 1210 - Introduction to Statistics **Credits:** 4  
or  
PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits:** 3 (if MTH 1210 was not taken to meet the General Studies Quantitative Literacy requirement)

## Core Courses: 26 credits

HCM 3500 - Health Care Research Methods **Credits:** 3 \*  
ITP 1700 - Medical Terminology **Credits:** 2  
ITP 2000 - Integrative Health Foundations **Credits:** 1  
ITP 2500 - Complementary and Alternative Medical Therapies **Credits:** 3 \*  
ITP 2700 - Holistic Health **Credits:** 3  
ITP 3200 - Ethics in Health Care **Credits:** 3  
ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits:** 3  
ITP 4500 - Professionalism in Integrative Therapies **Credits:** 1  
ITP 4600 - Clinical Pathophysiology **Credits:** 4  
ITP 4991 - Integrative Capstone **Credits:** 3

\*Course has additional prerequisites.

## Program Electives: 15 credits

Choose at least 15 credits from the following list:

ITP 1600 - Herbal Medicine **Credits:** 3  
ITP 2800 - Health, Society, and the Environment **Credits:** 3  
ITP 2810 - Men Across Cultures **Credits:** 3  
ITP 2820 - Anger In Men: A Whole Approach **Credits:** 3  
ITP 2950 - Wellness Coaching I **Credits:** 3  
ITP 3000 - Men's Health **Credits:** 3  
ITP 3100 - Health Education and Counseling **Credits:** 3  
ITP 3300 - Homeopathy **Credits:** 3  
ITP 3400 - Ayurveda **Credits:** 3  
ITP 3500 - Traditional Chinese Medicine **Credits:** 3  
ITP 3600 - Energy Medicine **Credits:** 3  
ITP 3700 - Physiology of Aging **Credits:** 3  
ITP 3850 - Lifestyle Medicine **Credits:** 3  
ITP 4000 - Pediatric Holistic Health **Credits:** 3  
ITP 4100 - Women's Holistic Health **Credits:** 3  
ITP 4200 - Aromatherapy **Credits:** 3  
ITP 4300 - Botanical Pharmacology **Credits:** 3  
ITP 4400 - Wellness Coaching II **Credits:** 3  
ITP 4910 - Applications in Wellness Coaching **Credits:** 3  
NUT 2040 - Introduction to Nutrition **Credits:** 3

## Senior Experience: 3 credits

ITP 4900 - Theories and Application of Knowledge for Integrative Health **Credits:** 3  
or  
ITP 4990 - Internship in Integrative Therapeutic Practices **Credits:** 3-6

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirements	0-3 credits
Prerequisite Courses	14-15 credits
Core Courses	26 credits
Program Electives	15 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	25-41 credits
Total for the Integrative Health Care Major, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Integrative Health Care Minor

The Integrative Health Care minor offers an area of concentration for students who recognize the increased emphasis on wellness and complementary and alternative therapies, as well as for health conscious individuals who wish to establish a self-enhancement program. The minor is designed to complement a major chosen by a student that is relevant to the student's career goals. Students must earn a "C" or better in all courses for this minor.

### Core Courses

- ITP 1500 - Dynamics of Health **Credits: 3 +**
- ITP 2500 - Complementary and Alternative Medical Therapies **Credits: 3**
- ITP 2700 - Holistic Health **Credits: 3**

**Total for Core Courses: 9 credits**

### Additional Courses

Choose 4 courses from the following:

- HCM 3500 - Health Care Research Methods **Credits: 3 \***
- ITP 1600 - Herbal Medicine **Credits: 3**
- ITP 2000 - Integrative Health Foundations **Credits: 1**
- ITP 2800 - Health, Society, and the Environment **Credits: 3**
- ITP 2810 - Men Across Cultures **Credits: 3**
- ITP 2820 - Anger In Men: A Whole Approach **Credits: 3**
- ITP 2950 - Wellness Coaching I **Credits: 3**
- ITP 3000 - Men's Health **Credits: 3**
- ITP 3100 - Health Education and Counseling **Credits: 3**
- ITP 3200 - Ethics in Health Care **Credits: 3 \***
- ITP 3300 - Homeopathy **Credits: 3**
- ITP 3400 - Ayurveda **Credits: 3 \***
- ITP 3500 - Traditional Chinese Medicine **Credits: 3 \***
- ITP 3600 - Energy Medicine **Credits: 3 \***
- ITP 3700 - Physiology of Aging **Credits: 3 \***

ITP 3800 - Stress and Sleep: Impact on Health and Disease  
**Credits: 3 \***

ITP 3850 - Lifestyle Medicine **Credits: 3 \***

ITP 4000 - Pediatric Holistic Health **Credits: 3 \***

ITP 4100 - Women's Holistic Health **Credits: 3 \***

ITP 4200 - Aromatherapy **Credits: 3 \***

ITP 4300 - Botanical Pharmacology **Credits: 3 \***

ITP 4400 - Wellness Coaching II **Credits: 3**

ITP 4500 - Professionalism in Integrative Therapies **Credits: 1 \***

ITP 4600 - Clinical Pathophysiology **Credits: 4 \***

ITP 4700 - Community Health Education and Lifestyle Medicine **Credits: 3 \***

ITP 4900 - Theories and Application of Knowledge for Integrative Health **Credits: 3 \***

ITP 4910 - Applications in Wellness Coaching **Credits: 3**

ITP 4990 - Internship in Integrative Therapeutic Practices  
**Credits: 3-6 \***

ITP 4991 - Integrative Capstone **Credits: 3 \***

NUT 2040 - Introduction to Nutrition **Credits: 3 +**

**Total for the Minor: 21 credits**

*\*Course has additional prerequisites.*

*+Course cannot be used for both General Studies and the minor.*

## Lifestyle Medicine Extended Major, B.S.

[Department of Health Professions](#)

Available Program Format(s): [In-](#)

[College of Health and Applied Sciences](#)

[Person](#)

### About the Program

The Bachelor of Science Major in Lifestyle Medicine provides students with competencies in lifestyle medicine, health navigation, and wellness coaching. Lifestyle medicine is the use of evidence-based lifestyle approaches, including healthful eating, physical activity, sleep, stress management, tobacco cessation, fostering relationships, emotional wellness, and environmental health. These approaches prevent and treat many chronic diseases, improve outcomes and quality of life, tackle health disparities, and decrease health costs. Throughout the major, themes of cultural competence, service, self-care, interdisciplinary collaboration, and whole-person health will be emphasized. The major prepares students to incorporate the principles of evidence-based lifestyle medicine in health related careers, prepares students to obtain related certifications, and positions them as leaders in addressing national health concerns. This extended major is also applicable to students wishing to enter graduate health professional schools; however other prerequisites will likely be necessary for admission. The Lifestyle Medicine Extended Major allows students to take several electives from a variety of lifestyle medicine disciplines.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of D- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- No minor is required for this major.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill half of this requirement by taking NUT 2040 - Introduction to Nutrition which is required for the lifestyle medicine extended major

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement by taking ITP 1500 - Dynamics of Health and ITP 3850 - Lifestyle Medicine which are required for the lifestyle medicine extended major

Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Recommended: students wishing to fulfill this requirement from a course that is an option for the major may wish to take HCM 3700 - Health Disparities in the U.S.

## Lifestyle Medicine Core: 42 credits

Core required for the Lifestyle Medicine Extended Major

COMM 2020 - Introduction to Health Communication **Credits:** 3

or

HCM 3700 - Health Disparities in the U.S. **Credits:** 3

HCM 3150 - Health Care Organization and Management **Credits:** 3

HCPS 3000 - Introduction to Patient Navigation **Credits:** 3

ITP 1000 - Health Career Foundations **Credits:** 3

ITP 1500 - Dynamics of Health **Credits:** 3

HPS 2700 - Wellness Coaching I **Credits:** 3

or

ITP 2950 - Wellness Coaching I **Credits:** 3

ITP 3450 - Dynamics of Disease **Credits:** 3

ITP 3850 - Lifestyle Medicine **Credits:** 3

ITP 4700 - Community Health Education and Lifestyle Medicine **Credits:** 3

ITP 4800 - Lifestyle Medicine Across Gender and Lifespan **Credits:** 3

RST 3530 - Healthy International Cooking **Credits:** 3

or

ITP 2700 - Holistic Health **Credits:** 3

or

ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits:** 3

**Credits:** 3

or

HPS 1030 - Fitness and Well-being: Variable Topics **Credits:** 1 and

HPL 1870 - Stress Management **Credits:** 2

ITP 4550 - Advanced Health Navigation and Assessment **Credits:** 3

**Credits:** 3

HPS 4700 - Wellness Coaching II **Credits:** 3

or

ITP 4400 - Wellness Coaching II **Credits:** 3

NUT 2040 - Introduction to Nutrition **Credits:** 3

## Electives: 15 credits

Choose 15 Credits

EXS 1020 - Resistance Training Techniques **Credits:** 3

EXS 1640 - Physical Fitness Techniques and Programs **Credits:** 3

HCM 3500 - Health Care Research Methods **Credits:** 3

PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits:** 3

PUB 3020 - Introduction to Epidemiology in Public Health **Credits:** 3

PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits:** 3

HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits:** 3

HON 3910 - Honors Colloquium **Credits:** 3

HON 4950 - Senior Honors Thesis **Credits:** 3

HON 4951 - Paired Senior Honors Thesis **Credits:** 1

HPS 1440 - Stress Management Techniques **Credits:** 3  
HPS 3340 - Physiology of Exercise **Credits:** 4  
HSP 3220 - Conflict Resolution and Decision Making **Credits:** 3  
HSP 3470 - Counseling the Substance Abuser **Credits:** 4  
HSP 3550 - Intimate Partner Violence **Credits:** 3  
HSP 3560 - Motivational Interviewing **Credits:** 2  
HSP 3575 - Motivational Interviewing for Health Professionals **Credits:** 3  
HSP 4290 - Posttraumatic Stress Disorder and Trauma Informed Care **Credits:** 1  
ITP 2800 - Health, Society, and the Environment **Credits:** 3  
ITP 2810 - Men Across Cultures **Credits:** 3  
ITP 2820 - Anger In Men: A Whole Approach **Credits:** 3  
ITP 3000 - Men's Health **Credits:** 3  
ITP 3100 - Health Education and Counseling **Credits:** 3  
ITP 3200 - Ethics in Health Care **Credits:** 3  
ITP 3700 - Physiology of Aging **Credits:** 3  
ITP 4000 - Pediatric Holistic Health **Credits:** 3  
ITP 4100 - Women's Holistic Health **Credits:** 3  
ITP 4600 - Clinical Pathophysiology **Credits:** 4  
ITP 4999 - Applied Learning with Lifestyle Medicine **Credits:** 3  
NUT 3040 - Nutrition Concepts and Controversies **Credits:** 3  
NUT 3050 - Concepts of Lifecycle Nutrition **Credits:** 3  
NUT 3200 - Nutrition and Sports Performance **Credits:** 3  
NUT 3350 - Global Nutrition and Health **Credits:** 3  
NUT 3400 - Nutrition and Weight Management **Credits:** 3  
NUT 3500 - Food Safety **Credits:** 3  
PSY 2120 - Brain and Behavior **Credits:** 3  
PSY 2150 - Positive Psychology **Credits:** 3  
PSY 2210 - Psychology of Human Development **Credits:** 3  
PSY 3410 - Health Psychology **Credits:** 3  
PSY 3440 - Cravings and Addictions **Credits:** 3  
RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits:** 3  
RECR 3330 - Introduction to Therapeutic Recreation Services **Credits:** 3  
RECR 4630 - Recreation Programs for the Older Adult **Credits:** 3  
RST 1550 - Food Fundamentals **Credits:** 3  
RST 3875 - Food Preservation Techniques **Credits:** 3  
SPS 4500 - Teaching Assistantship in the College of Professional Studies **Credits:** 3  
SWK 1010 - Introduction to Social Work **Credits:** 3  
SWK 1600 - Community Engagement and Civic Responsibility **Credits:** 3  
SWK 3010 - Social Work Practice with Children and Youth **Credits:** 3  
SWK 3030 - Social Work with Older People **Credits:** 3  
SWK 3080 - Social Work with Families **Credits:** 3  
SWK 3120 - Privilege, Oppression, and Power **Credits:** 3  
SWK 3150 - Social Work and Child Maltreatment **Credits:** 3  
SWK 3500 - Social Work Practice with LGBTQ People **Credits:** 3  
UA 2735 - Urban Vegetable Farming **Credits:** 3  
UA 3905 - Farm to Table Sustainability **Credits:** 3  
Any HPL course may count for up to 4 credits of electives

## Senior Experience: 3 credits

HPS 4950 - Community Coaching for Health **Credits:** 3  
or  
ITP 4950 - Community Coaching for Health **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Courses	42 credits
Elective Courses	15 credits
Senior Experience	3 credits
Unrestricted Electives	24-36 credits
<b>Total for the Lifestyle Medicine Extended Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Lifestyle Medicine Major, B.S.

[Department of Health Professions](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Bachelor of Science Major in Lifestyle Medicine provides students with competencies in lifestyle medicine, health navigation, and wellness coaching. Lifestyle medicine is the use of evidence-based lifestyle approaches, including healthful eating, physical activity, sleep, stress management, tobacco cessation, fostering relationships, emotional wellness, and environmental health. These approaches prevent and treat many chronic diseases, improve outcomes and quality of life, tackle health disparities, and decrease health costs. Throughout the major, themes of cultural competence, service, self-care, interdisciplinary collaboration, and whole-person health will be emphasized. The major prepares students to incorporate the principles of evidence-based lifestyle medicine in health related careers, prepares students to obtain related certifications, and positions them as leaders in addressing national health concerns.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of D- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this major.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill half of this requirement by taking NUT 2040 - Introduction to Nutrition which is required for the lifestyle medicine major

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement by taking ITP 1500 - Dynamics of Health and ITP 3850 - Lifestyle Medicine which are required for the lifestyle medicine major

Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Recommended: students wishing to fulfill this requirement from a course that is an option for the major may wish to take HCM 3700 - Health Disparities in the U.S.

## Lifestyle Medicine Core: 42 credits

Core required for the Lifestyle Medicine Major

COMM 2020 - Introduction to Health Communication **Credits:**  
3

or

HCM 3700 - Health Disparities in the U.S. **Credits:** 3  
HCM 3150 - Health Care Organization and Management  
**Credits:** 3

HCPS 3000 - Introduction to Patient Navigation **Credits:** 3

ITP 1000 - Health Career Foundations **Credits:** 3

ITP 1500 - Dynamics of Health **Credits:** 3

HPS 2700 - Wellness Coaching I **Credits:** 3

or

ITP 2950 - Wellness Coaching I **Credits:** 3

ITP 3450 - Dynamics of Disease **Credits:** 3

ITP 3850 - Lifestyle Medicine **Credits:** 3

ITP 4700 - Community Health Education and Lifestyle  
Medicine **Credits:** 3

ITP 4800 - Lifestyle Medicine Across Gender and Lifespan  
**Credits:** 3

RST 3530 - Healthy International Cooking **Credits:** 3

or

ITP 2700 - Holistic Health **Credits:** 3

or

ITP 3800 - Stress and Sleep: Impact on Health and Disease  
**Credits:** 3

or

HPS 1030 - Fitness and Well-being: Variable Topics **Credits:** 1  
and

HPL 1870 - Stress Management **Credits:** 2

ITP 4550 - Advanced Health Navigation and Assessment  
**Credits:** 3

HPS 4700 - Wellness Coaching II **Credits:** 3

or

ITP 4400 - Wellness Coaching II **Credits:** 3

NUT 2040 - Introduction to Nutrition **Credits:** 3

## Electives: 3 credits

Choose 3 credits

EXS 1020 - Resistance Training Techniques **Credits:** 3

EXS 1640 - Physical Fitness Techniques and Programs **Credits:**  
3

HCM 3500 - Health Care Research Methods **Credits:** 3

PUB 3010 - Community Health Survey, Assessment and Health  
Improvement Planning **Credits:** 3

PUB 3020 - Introduction to Epidemiology in Public Health  
**Credits:** 3

PUB 3030 - Essentials of Environmental Health in Public Health  
Practices **Credits:** 3

HCM 3800 - Long-Term Care: Managing Across the Continuum  
**Credits:** 3

HON 3910 - Honors Colloquium **Credits:** 3

HON 4950 - Senior Honors Thesis **Credits:** 3

HON 4951 - Paired Senior Honors Thesis **Credits:** 1

HPS 1440 - Stress Management Techniques **Credits:** 3

HPS 3340 - Physiology of Exercise **Credits:** 4

HSP 3220 - Conflict Resolution and Decision Making **Credits:**  
3

HSP 3470 - Counseling the Substance Abuser **Credits:** 4

HSP 3550 - Intimate Partner Violence **Credits:** 3  
HSP 3560 - Motivational Interviewing **Credits:** 2  
HSP 3575 - Motivational Interviewing for Health Professionals  
**Credits:** 3  
HSP 4290 - Posttraumatic Stress Disorder and Trauma Informed  
Care **Credits:** 1  
ITP 2800 - Health, Society, and the Environment **Credits:** 3  
ITP 2810 - Men Across Cultures **Credits:** 3  
ITP 2820 - Anger In Men: A Whole Approach **Credits:** 3  
ITP 3000 - Men's Health **Credits:** 3  
ITP 3100 - Health Education and Counseling **Credits:** 3  
ITP 3200 - Ethics in Health Care **Credits:** 3  
ITP 3700 - Physiology of Aging **Credits:** 3  
ITP 4000 - Pediatric Holistic Health **Credits:** 3  
ITP 4100 - Women's Holistic Health **Credits:** 3  
ITP 4600 - Clinical Pathophysiology **Credits:** 4  
ITP 4999 - Applied Learning with Lifestyle Medicine **Credits:**  
3  
NUT 3040 - Nutrition Concepts and Controversies **Credits:** 3  
NUT 3050 - Concepts of Lifecycle Nutrition **Credits:** 3  
NUT 3200 - Nutrition and Sports Performance **Credits:** 3  
NUT 3350 - Global Nutrition and Health **Credits:** 3  
NUT 3400 - Nutrition and Weight Management **Credits:** 3  
NUT 3500 - Food Safety **Credits:** 3  
PSY 2120 - Brain and Behavior **Credits:** 3  
PSY 2150 - Positive Psychology **Credits:** 3  
PSY 2210 - Psychology of Human Development **Credits:** 3  
PSY 3410 - Health Psychology **Credits:** 3  
PSY 3440 - Cravings and Addictions **Credits:** 3  
RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits:**  
3  
RECR 3330 - Introduction to Therapeutic Recreation Services  
**Credits:** 3  
RECR 4630 - Recreation Programs for the Older Adult **Credits:**  
3  
RST 1550 - Food Fundamentals **Credits:** 3  
RST 3875 - Food Preservation Techniques **Credits:** 3  
SPS 4500 - Teaching Assistantship in the College of  
Professional Studies **Credits:** 3  
SWK 1010 - Introduction to Social Work **Credits:** 3  
SWK 1600 - Community Engagement and Civic Responsibility  
**Credits:** 3  
SWK 3010 - Social Work Practice with Children and Youth  
**Credits:** 3  
SWK 3030 - Social Work with Older People **Credits:** 3  
SWK 3080 - Social Work with Families **Credits:** 3  
SWK 3120 - Privilege, Oppression, and Power **Credits:** 3  
SWK 3150 - Social Work and Child Maltreatment **Credits:** 3  
SWK 3500 - Social Work Practice with LGBTQ People  
**Credits:** 3  
UA 2735 - Urban Vegetable Farming **Credits:** 3  
UA 3905 - Farm to Table Sustainability **Credits:** 3  
Any HPL course may count for up to 4 credits of electives

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Courses	42 credits
Elective Course	3 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	36-48 credits
Total for the Lifestyle Medicine Major, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Lifestyle Medicine Minor

The Lifestyle Medicine minor assists students interested in learning how positive behavior changes improve health and quality of life through nutritious eating, physical activity, stress reduction, sleep habits, tobacco cessation, social connection, and other health supporting behaviors. The minor will prepare students to incorporate the principals of evidence-based lifestyle medicine in health and wellness related careers. The Lifestyle Medicine minor contains required core courses along with numerous elective courses so that students can tailor the minor to meet specific career and personal goals. Potential majors to complement this minor include but are not limited to Integrative Health Care, Recreation Professions, Health Care Management, Nutrition, Health Care Professional Services, and Nursing. The minor is also applicable to individuals who plan to apply to graduate programs in healthcare.

### Advising:

- Students can contact the Department of Health Professions for advising at 303-615-1200.
- New or transfer students interested in the Lifestyle Medicine minor can also seek advising through the College of Professional Studies Advising Office at 303-615-1099.

### Course Selection:

- Students must take 18 credit hours from the following courses: 9 required credit hours and 9 elective credit hours.
- Courses used for a major or minor other than the Lifestyle Medicine minor or used to satisfy General Studies requirements cannot be used for the Lifestyle Medicine minor.

## Senior Experience: 3 credits

HPS 4950 - Community Coaching for Health **Credits:** 3  
or  
ITP 4950 - Community Coaching for Health **Credits:** 3

## Required Courses

ITP 3850 - Lifestyle Medicine **Credits:** 3  
ITP 4700 - Community Health Education and Lifestyle  
Medicine **Credits:** 3

ITP 4800 - Lifestyle Medicine Across Gender and Lifespan  
**Credits: 3**

## Lifestyle Medicine Electives

Choose at least 9 credits from the following (at least 3 hours must be upper division). Note: for ITP 2950/HPS 2700 & ITP 4400/HPS 4700 credit will only be given for one prefix: ITP or HPS

COMM 2020 - Introduction to Health Communication **Credits: 3**  
EXS 1020 - Resistance Training Techniques **Credits: 3**  
EXS 1640 - Physical Fitness Techniques and Programs **Credits: 3**  
HCM 3150 - Health Care Organization and Management **Credits: 3**  
HCM 3500 - Health Care Research Methods **Credits: 3**  
PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits: 3**  
PUB 3020 - Introduction to Epidemiology in Public Health **Credits: 3**  
PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits: 3**  
HCM 3700 - Health Disparities in the U.S. **Credits: 3**  
HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3**  
HCPS 3000 - Introduction to Patient Navigation **Credits: 3**  
HON 3910 - Honors Colloquium **Credits: 3**  
HON 4950 - Senior Honors Thesis **Credits: 3**  
HON 4951 - Paired Senior Honors Thesis **Credits: 1**  
HPL 1870 - Stress Management **Credits: 2**  
HPS 1030 - Fitness and Well-being: Variable Topics **Credits: 1**  
HPS 1440 - Stress Management Techniques **Credits: 3**  
HPS 2700 - Wellness Coaching I **Credits: 3**  
HPS 3340 - Physiology of Exercise **Credits: 4**  
HPS 4700 - Wellness Coaching II **Credits: 3**  
HSP 3220 - Conflict Resolution and Decision Making **Credits: 3**  
HSP 3470 - Counseling the Substance Abuser **Credits: 4**  
HSP 3550 - Intimate Partner Violence **Credits: 3**  
HSP 3575 - Motivational Interviewing for Health Professionals **Credits: 3**  
HSP 4290 - Posttraumatic Stress Disorder and Trauma Informed Care **Credits: 1**  
ITP 1000 - Health Career Foundations **Credits: 3**  
ITP 1500 - Dynamics of Health **Credits: 3**  
ITP 2700 - Holistic Health **Credits: 3**  
ITP 2800 - Health, Society, and the Environment **Credits: 3**  
ITP 2810 - Men Across Cultures **Credits: 3**  
ITP 2820 - Anger In Men: A Whole Approach **Credits: 3**  
ITP 2950 - Wellness Coaching I **Credits: 3**  
ITP 3000 - Men's Health **Credits: 3**  
ITP 3100 - Health Education and Counseling **Credits: 3**  
ITP 3200 - Ethics in Health Care **Credits: 3**  
ITP 3450 - Dynamics of Disease **Credits: 3**  
ITP 3700 - Physiology of Aging **Credits: 3**  
ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits: 3**  
ITP 4000 - Pediatric Holistic Health **Credits: 3**

ITP 4100 - Women's Holistic Health **Credits: 3**  
ITP 4400 - Wellness Coaching II **Credits: 3**  
ITP 4550 - Advanced Health Navigation and Assessment **Credits: 3**  
ITP 4950 - Community Coaching for Health **Credits: 3**  
ITP 4999 - Applied Learning with Lifestyle Medicine **Credits: 3**  
NUT 2040 - Introduction to Nutrition **Credits: 3**  
NUT 3040 - Nutrition Concepts and Controversies **Credits: 3**  
NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3**  
NUT 3200 - Nutrition and Sports Performance **Credits: 3**  
NUT 3400 - Nutrition and Weight Management **Credits: 3**  
PSY 2120 - Brain and Behavior **Credits: 3**  
PSY 2150 - Positive Psychology **Credits: 3**  
PSY 3410 - Health Psychology **Credits: 3**  
PSY 3440 - Cravings and Addictions **Credits: 3**  
RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits: 3**  
RECR 3330 - Introduction to Therapeutic Recreation Services **Credits: 3**  
RECR 4630 - Recreation Programs for the Older Adult **Credits: 3**  
RST 1550 - Food Fundamentals **Credits: 3**  
RST 3530 - Healthy International Cooking **Credits: 3**  
RST 3875 - Food Preservation Techniques **Credits: 3**  
SPS 4500 - Teaching Assistantship in the College of Professional Studies **Credits: 3**  
SWK 1010 - Introduction to Social Work **Credits: 3**  
SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**  
SWK 3010 - Social Work Practice with Children and Youth **Credits: 3**  
SWK 3030 - Social Work with Older People **Credits: 3**  
SWK 3080 - Social Work with Families **Credits: 3**  
SWK 3120 - Privilege, Oppression, and Power **Credits: 3**  
SWK 3150 - Social Work and Child Maltreatment **Credits: 3**  
SWK 3500 - Social Work Practice with LGBTQ People **Credits: 3**  
UA 2735 - Urban Vegetable Farming **Credits: 3**  
UA 3905 - Farm to Table Sustainability **Credits: 3**  
HPL Prefix Courses: up to 4 credits

## Pre-Healthcare Minor

The Pre-Healthcare Minor provides background knowledge for individuals interested in healthcare. This includes, but is not limited to, individuals who plan to apply to a clinical education program, a graduate program in healthcare management, or a pre-licensure nursing program, including, but not limited to, the MSU Denver Nursing Program.

Potential majors to complement this minor include, but are not limited to, Anthropology, Health Care Management, Integrative Healthcare, Psychology, and Sociology.

This minor cannot be used with a Biology major.

## Advising

- Students planning to transfer into an undergraduate nursing program should contact the Department of Nursing at 303-615-1600.
- Students planning to complete a bachelor's degree before applying to the MSU Denver Accelerated Nursing Program should contact the Department of Nursing at 303-615-1600.
- Students can also see their major advisor for assistance with this program.
- Students with majors in the health professions should contact the Department of Health Professions at 303-615-1200.
- Students with a major in Nutrition (HND) should contact the Department of Nutrition at 303-615-0990.

## Important Notice

- Completion of this minor does not guarantee admission into any nursing or health professions graduate program.
- Students are responsible for contacting the nursing or health professions graduate program to which they are applying regarding specific prerequisite courses required by that program.
- Students must select 21 semester hours from the following courses, including at least 3 semester hours of upper-division credit. Courses used for a major or minor other than the Pre-Healthcare Minor or used to satisfy General Studies requirements cannot be used for the Pre-Healthcare Minor.
- A grade of "C" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

BIO 2310 - Human Anatomy and Physiology I **Credits: 4 \***  
 BIO 2320 - Human Anatomy and Physiology II **Credits: 4**

**Subtotal: 8 credits**

## Elective Courses

Choose at least 13 semester hours from the following list (at least 3 semester hours must be upper division):

ANT 3480 - Cultural Diversity in Health and Illness **Credits: 3**  
 BIO 1080 - General Biology I **Credits: 3**  
 BIO 1090 - General Biology Laboratory I **Credits: 1**  
 BIO 1081 - General Biology II **Credits: 3 \***  
 BIO 1091 - General Biology Laboratory II **Credits: 1 \***  
 BIO 2400 - General Microbiology **Credits: 5 \***  
 BIO 3050 - Cell Biology **Credits: 4 \***  
 BIO 3300 - Advanced Human Biology for Non-Majors **Credits: 3**  
 BIO 3320 - Advanced Human Physiology **Credits: 4 \***  
 BIO 3330 - Advanced Human Cadaver Anatomy **Credits: 5**  
 BIO 3350 - Immunology **Credits: 3 \***  
 BIO 3980 Cooperative Education: MedVantage Nursing Internship: **3**  
 BIO 3471 - Biology of Women **Credits: 3 \***  
 BIO 3600 - General Genetics **Credits: 4 \***

BIO 4450 - Pathogenic Microbiology **Credits: 5 \***  
 CHE 1100 - Principles of Chemistry **Credits: 4**  
 CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**  
 CHE 1800 - General Chemistry I **Credits: 4**  
 CHE 1801 - General Chemistry I Laboratory **Credits: 1**  
 CHE 1810 - General Chemistry II **Credits: 4 \***  
 CHE 1811 - General Chemistry II Laboratory **Credits: 1 \***  
 CHE 2100 - Introduction to Organic and Biological Chemistry **Credits: 4 \***  
 CHE 2150 - Introduction to Organic and Biological Chemistry Laboratory **Credits: 1**  
 CHE 3100 - Organic Chemistry I **Credits: 4 \***  
 CHE 3110 - Organic Chemistry II **Credits: 3 \***  
 CHE 3120 - Organic Chemistry Laboratory 1 **Credits: 1 \***  
 CHE 3130 - Organic Chemistry Laboratory II **Credits: 2 \***  
 CHE 4310 - Biochemistry I **Credits: 4 \***  
 CHE 4320 - Biochemistry II **Credits: 4 \***  
 CHE 4350 - Biochemistry Laboratory **Credits: 2**  
 HCM 2010 - Global Health Systems **Credits: 3**  
 HCM 3150 - Health Care Organization and Management **Credits: 3**  
 HCM 3200 - Managing Quality in Health Care **Credits: 2**  
 HCM 3500 - Health Care Research Methods **Credits: 3 \***  
 HCM 3600 - Health Information Systems **Credits: 3**  
 PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits: 3**  
 PUB 3020 - Introduction to Epidemiology in Public Health **Credits: 3**  
 PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits: 3**  
 HCM 3700 - Health Disparities in the U.S. **Credits: 3**  
 HCM 3750 - Professional Practice Management **Credits: 1**  
 HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits: 3**  
 ITP 1600 - Herbal Medicine **Credits: 3**  
 ITP 1700 - Medical Terminology **Credits: 2**  
 ITP 2500 - Complementary and Alternative Medical Therapies **Credits: 3**  
 ITP 2700 - Holistic Health **Credits: 3 \***  
 ITP 2800 - Health, Society, and the Environment **Credits: 3 \***  
 ITP 2950 - Wellness Coaching I **Credits: 3 \***  
 ITP 3000 - Men's Health **Credits: 3 \***  
 ITP 3100 - Health Education and Counseling **Credits: 3 \***  
 ITP 3200 - Ethics in Health Care **Credits: 3 \***  
 ITP 3700 - Physiology of Aging **Credits: 3 \***  
 ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits: 3 \***  
 ITP 3850 - Lifestyle Medicine **Credits: 3 \***  
 ITP 4000 - Pediatric Holistic Health **Credits: 3 \***  
 ITP 4100 - Women's Holistic Health **Credits: 3 \***  
 ITP 4300 - Botanical Pharmacology **Credits: 3 \***  
 MTH 1110 - College Algebra for Calculus **Credits: 4**  
 MTH 1120 - College Trigonometry **Credits: 3 \***  
 MTH 1210 - Introduction to Statistics **Credits: 4**  
 MTH 1400 - Precalculus Mathematics **Credits: 4 \***  
 MTH 1410 - Calculus I **Credits: 4 \***  
 NUT 2040 - Introduction to Nutrition **Credits: 3 \***  
 NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3 \***  
 NUT 3200 - Nutrition and Sports Performance **Credits: 3 \***  
 NUT 3300 - Cultural Aspects of Nutrition **Credits: 3 \***

NUT 3400 - Nutrition and Weight Management **Credits:** 3 \*

NUT 3500 - Food Safety **Credits:** 3

NUT 4210 - Community Nutrition **Credits:** 3 \*

PHI 1030 - Introduction to Ethics **Credits:** 3

PHY 2010 - College Physics I **Credits:** 4 \*

PHY 2020 - College Physics II **Credits:** 4 \*

PHY 2030 - College Physics I Laboratory **Credits:** 1 \*

PHY 2040 - College Physics II Laboratory **Credits:** 1 \*

PHY 2311 - General Physics I **Credits:** 4 \*

PHY 2321 - General Physics I Laboratory **Credits:** 1 \*

PHY 2331 - General Physics II **Credits:** 4 \*

PHY 2341 - General Physics II Laboratory **Credits:** 1 \*

PSY 2210 - Psychology of Human Development **Credits:** 3 \*

PSY 2310 - Statistics for the Social and Behavioral Sciences  
**Credits:** 3

PSY 3620 - Abnormal Psychology **Credits:** 3 \*

SPA 1004 - Conversational Spanish for Medical Professions I  
**Credits:** 3

SPA 1005 - Conversational Spanish for Medical Professions II  
**Credits:** 3

SPA 1010 - Elementary Spanish I **Credits:** 5

**Subtotal: 13 credits**

**Total for Minor: 21 credits**

*\* Courses requiring additional prerequisites.*

## Public Health Major, B.A.

[Department of Health Professions](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

A degree in public health will give the student a broad understanding of the public health field, while allowing students to gain experience in focused specialties of public health practice. By completing the public health core, students will have skills to understand basic public health functions such as monitoring and assessing the health of communities, identifying health problems and priorities, and implementing evidence-based strategies to promote population health. The required curriculum was designed to build student knowledge and skill in 11 Public Health Competency Domains identified by the Counsel on Public Health Education (CEPH).

Students that graduate with a major in Public Health will be prepared for many entry-level public health positions, as well as providing the background knowledge required to pursue a broad range of graduate degree programs, including a master's degree of Public Health (MPH) or a master's degree in Health Administration (MHA).

### Student Outcomes

The requirements for the public health major (BA) provides instruction in the following domains. The curriculum addresses these domains through any combination of learning experiences throughout the requirements for the major or concentration coursework.

- The concepts and applications of basic statistics
- The foundations of biological and life sciences and the concepts of health and disease
- The history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society
- The basic concepts, methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice
- The concepts of population health, and the basic processes, approaches, and interventions that identify and address the major health-related needs and concerns of populations
- The underlying science of human health and disease including opportunities for promoting and protecting health across the life course
- The socioeconomic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities
- The fundamental concepts and features of project implementation, including planning, assessment, and evaluation
- The fundamental characteristics and organizational structures of the US health system as well as the differences in systems in other countries
- Basic concepts of legal, ethical, economic, and regulatory dimensions of health care and public health policy and the roles, influences, and responsibilities of the different agencies and branches of government
- Basic concepts of public health-specific communication, including technical and professional writing and the use of mass media and electronic technology

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1210 - Introduction to Statistics\*

Arts and Humanities (6 credits)

**Recommended:** PHI 1030 - Introduction to Ethics\*

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

**Recommended:** HCM 2010 - Global Health Systems\*\*

**Recommended:** ITP 1500 - Dynamics of Health\*

Global Diversity (0 or 3 credits\*\*\*)

**Recommended:** HCM 2010 - Global Health Systems\*\*

\* The listed courses are suggested courses, but not required for the major.

\*\*HCM 2010 is required for the major and may also count in General Studies Social and Behavioral Science and Global Diversity.

\*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Public Health Major Core: 45 credits

These courses are required to complete the Public Health Major.

HCM 2010 - Global Health Systems **Credits:** 3

HCM 3700 - Health Disparities in the U.S. **Credits:** 3

ITP 3200 - Ethics in Health Care **Credits:** 3

ITP 3450 - Dynamics of Disease **Credits:** 3

ITP 3980 - Internship in Integrative Therapeutic Practices **Credits:** 1-15

PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits:** 3

PUB 1000 - Principles of Public Health **Credits:** 3

PUB 3000 - Health Behavior Theory and Practice **Credits:** 3

PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits:** 3

PUB 3020 - Introduction to Epidemiology in Public Health

**Credits:** 3

PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits:** 3

PUB 4000 - Health Policy - Practice and Development **Credits:** 3

PUB 4010 - Health Program Planning, Implementation, and Evaluation **Credits:** 3

SLHS 2990 - Introduction to Health Communication **Credits:** 3

## Public Health Major Core Option

You must select one of the options to complete the Public Health core coursework. This is a 3 credit course option within the core courses, and will complete the 45 credit hours for the Public Health Major core course requirements.

HCPS 3000 - Introduction to Patient Navigation **Credits:** 3

ITP 3850 - Lifestyle Medicine **Credits:** 3

ITP 4700 - Community Health Education and Lifestyle Medicine **Credits:** 3

## Public Health Major Electives: 3 credits

You must select one course from the following list to complete the elective course requirement.

HCM 3100 - Entrepreneurship in Health **Credits:** 1

HCM 3150 - Health Care Organization and Management **Credits:** 3

HCM 3200 - Managing Quality in Health Care **Credits:** 2

HCM 3400 - Human Resources Management in Health Care **Credits:** 3

HCM 3550 - Leadership in Health Care **Credits:** 1

HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits:** 3

HCPS 3000 - Introduction to Patient Navigation **Credits:** 3

HLDR 1100 - Colorado Tourism and Recreation **Credits:** 3

HSP 1010 - Introduction to Human Services **Credits:** 3

HSP 1020 - Introduction to Trauma Informed Care **Credits:** 3

HSP 2010 - Introduction to High-Impact Nonprofit Organizations **Credits:** 3

HSP 2760 - Social Media for Social Change **Credits:** 3

HSP 2780 - Building A Sustainable Nonprofit **Credits:** 3

HSP 3460 - Addiction, Immunity, and Infectious Diseases **Credits:** 2

HSP 3510 - The People of Nonprofits: Staff, Board, Volunteers, Clients and You **Credits:** 3

HSP 3560 - Motivational Interviewing **Credits:** 2

HSP 3575 - Motivational Interviewing for Health Professionals **Credits:** 3

HSP 3860 - Social Entrepreneurship **Credits:** 3

HSP 4030 - Grantwriting for Social Change **Credits:** 3

HSP 4450 - Nonprofit Financial Management and Financing **Credits:** 3

ITP 1700 - Medical Terminology **Credits:** 2

ITP 2800 - Health, Society, and the Environment **Credits:** 3

ITP 2950 - Wellness Coaching I **Credits:** 3

- ITP 3000 - Men's Health **Credits: 3**
- ITP 3100 - Health Education and Counseling **Credits: 3**
- ITP 3700 - Physiology of Aging **Credits: 3**
- ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits: 3**
- ITP 3850 - Lifestyle Medicine **Credits: 3**
- ITP 4100 - Women's Holistic Health **Credits: 3**
- ITP 4400 - Wellness Coaching II **Credits: 3**
- ITP 4550 - Advanced Health Navigation and Assessment **Credits: 3**
- ITP 4700 - Community Health Education and Lifestyle Medicine **Credits: 3**
- ITP 4800 - Lifestyle Medicine Across Gender and Lifespan **Credits: 3**
- ITP 4950 - Community Coaching for Health **Credits: 3**
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- NUT 3350 - Global Nutrition and Health **Credits: 3**
- NUT 3500 - Food Safety **Credits: 3**
- NUT 4210 - Community Nutrition **Credits: 3**
- SLHS 3000 - Foundations of Disability Studies through Media **Credits: 3**
- SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**
- SWK 3030 - Social Work with Older People **Credits: 3**
- SWK 3120 - Privilege, Oppression, and Power **Credits: 3**

## Senior Experience: 3 credits

Choose any Senior Experience designated course.

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	45 credits
Major Elective	3 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	33-45 credits
<b>Total for the Public Health Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Public Health Minor

The undergraduate minor in Public Health will provide students with a basic understanding of the Public Health field by exploring social, cultural, and biological dimensions of health. By completing the public health minor curriculum, students will have skills that can be applied to a Public Health setting and functions such as monitoring and assessing the health of communities, identifying health problems and prioritizing them for better health outcomes, and implementing

evidence-based strategies to promote population health can be performed with a high level of expertise.

Students that graduate with a Public Health minor will be prepared for many entry-level public health positions, while also providing the background knowledge required to pursue a broad range of graduate degree programs, including a master's degree of Public Health (MPH). Providing this new minor in Public Health will build out student opportunities to connect broadly to the healthcare field, even when they are not public health majors. There are a variety of natural, social, and behavioral science fields that seek out individuals with knowledge and experience in the Public Health field as well as their specific area of training. Examples of such fields are behavioral health, social work, law and health policy, medicine, dentistry, pharmacy, nursing, health administration, and health services research.

It is highly recommended that General Studies and Support Courses be completed prior to enrolling in Public Health courses. Students must earn a grade of "C or higher" in all courses required for the minor in order to progress through the program. Courses with grades of less than "C" must be repeated prior to the student taking any other courses for which the first course is a prerequisite.

We recommend that you meet with a Department of Health Professions advisor once per semester, prior to registration, or, at least once a year.

Advisors can help plan your schedule or courses, review Degree Progress reports, discuss minors, assess your status regarding graduation requirements, and provide career counseling, etc.

## Required Courses

Public Health Foundation and Study in Epidemiology

- PUB 1000 - Principles of Public Health **Credits: 3**
- PUB 3020 - Introduction to Epidemiology in Public Health **Credits: 3**

## Study in Health Science

Pick one of the following course options:

- ITP 1500 - Dynamics of Health **Credits: 3**
- ITP 3450 - Dynamics of Disease **Credits: 3**

## Public Health Foci

Pick two of the following course options:

- HCM 3500 - Health Care Research Methods **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**
- PUB 3000 - Health Behavior Theory and Practice **Credits: 3**
- PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits: 3**

PUB 4000 - Health Policy - Practice and Development **Credits:** 3  
PUB 4010 - Health Program Planning, Implementation, and Evaluation **Credits:** 3  
PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits:** 3

PUB 3000 - Health Behavior Theory and Practice **Credits:** 3  
PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning **Credits:** 3  
PUB 3030 - Essentials of Environmental Health in Public Health Practices **Credits:** 3  
PUB 4000 - Health Policy - Practice and Development **Credits:** 3  
PUB 4010 - Health Program Planning, Implementation, and Evaluation **Credits:** 3  
SLHS 2990 - Introduction to Health Communication **Credits:** 3  
SLHS 3000 - Foundations of Disability Studies through Media **Credits:** 3  
SWK 1600 - Community Engagement and Civic Responsibility **Credits:** 3

## Social and Applied Science Suggested Electives

Pick one of the following course options:

ANT 1010 - Introduction to Biological Anthropology **Credits:** 3  
BIO 1000 - Human Biology for Non-Majors **Credits:** 3  
HCM 2010 - Global Health Systems **Credits:** 3  
HCM 3100 - Entrepreneurship in Health **Credits:** 1  
HCM 3150 - Health Care Organization and Management **Credits:** 3  
HCM 3200 - Managing Quality in Health Care **Credits:** 2  
HCM 3400 - Human Resources Management in Health Care **Credits:** 3  
HCM 3500 - Health Care Research Methods **Credits:** 3  
HCM 3550 - Leadership in Health Care **Credits:** 1  
HCM 3700 - Health Disparities in the U.S. **Credits:** 3  
HCM 3800 - Long-Term Care: Managing Across the Continuum **Credits:** 3  
HCPS 3000 - Introduction to Patient Navigation **Credits:** 3  
HLDR 1100 - Colorado Tourism and Recreation **Credits:** 3  
HSP 1010 - Introduction to Human Services **Credits:** 3  
HSP 1020 - Introduction to Trauma Informed Care **Credits:** 3  
HSP 2010 - Introduction to High-Impact Nonprofit Organizations **Credits:** 3  
HSP 2760 - Social Media for Social Change **Credits:** 3  
HSP 3460 - Addiction, Immunity, and Infectious Diseases **Credits:** 2  
HSP 3860 - Social Entrepreneurship **Credits:** 3  
HSP 4030 - Grantwriting for Social Change **Credits:** 3  
ITP 1500 - Dynamics of Health **Credits:** 3  
ITP 1700 - Medical Terminology **Credits:** 2  
ITP 2700 - Holistic Health **Credits:** 3  
ITP 2800 - Health, Society, and the Environment **Credits:** 3  
ITP 3000 - Men's Health **Credits:** 3  
ITP 3100 - Health Education and Counseling **Credits:** 3  
ITP 3200 - Ethics in Health Care **Credits:** 3  
ITP 3450 - Dynamics of Disease **Credits:** 3  
ITP 3700 - Physiology of Aging **Credits:** 3  
ITP 3800 - Stress and Sleep: Impact on Health and Disease **Credits:** 3  
ITP 3850 - Lifestyle Medicine **Credits:** 3  
ITP 4550 - Advanced Health Navigation and Assessment **Credits:** 3  
ITP 4700 - Community Health Education and Lifestyle Medicine **Credits:** 3  
MTH 1210 - Introduction to Statistics **Credits:** 4  
NUT 2040 - Introduction to Nutrition **Credits:** 3  
NUT 3350 - Global Nutrition and Health **Credits:** 3  
NUT 3500 - Food Safety **Credits:** 3  
NUT 4210 - Community Nutrition **Credits:** 3  
PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits:** 3

Total: 18 credits

## Wellness Coaching Certificate

**This program is not currently accepting new students. Please contact the Department of Health Professions at 303-615-1200 or [hcp@msudenver.edu](mailto:hcp@msudenver.edu) for more information.**

Wellness coaching is an emerging field in healthcare that focuses on empowering clients to make healthy lifestyle changes to optimize their health and wellbeing. Wellness coaches are individuals highly trained in behavior change. Most have strong backgrounds in healthcare (doctors, nurses, dietitians), and others have backgrounds in related fields, such as psychology or health education. Wellness coaches are the link between what the client needs to change and creating that change. To meet the objectives outlined within the health care reform bill, health care practitioners will likely need to become or hire wellness coaches to work with their clients.

## Admission and Graduation Requirements

This program is being offered to individuals with a bachelor's degree in a healthcare field; or a health licensure, such as a Registered Nurse; or bachelor's with certification; or approved certification and 2,000 hours work in field in an allied health field. To be awarded the program certificate, the student must meet the following requirements:

- complete 18 credit hours of courses as recommended by the certificate program;
- achieve a GPA of 3.0 or higher in the certificate program courses;
- earn at least a "C" or better in each of the certificate courses; and
- earn a minimum of 60% of required courses at MSU Denver.

## Advising and Contact Information

Individuals interested in this certificate program should contact the Department of Health Professions at 303-615-1200 to schedule an appointment for an advising session either in person or by phone.

## Required Courses

ITP 2500 - Complementary and Alternative Medical Therapies

**Credits:** 3

ITP 2700 - Holistic Health **Credits:** 3

ITP 2950 - Wellness Coaching I **Credits:** 3

ITP 3850 - Lifestyle Medicine **Credits:** 3

ITP 4400 - Wellness Coaching II **Credits:** 3

ITP 4910 - Applications in Wellness Coaching **Credits:** 3

**Total for Certificate: 18 credits**

## Department of Human Performance and Sport

The Department of Human Performance and Sport offers Bachelor of Science degrees in Athletic Training and Exercise Science. The Department also offers a Bachelor of Arts degree in Sport Management. In addition, the department offers a minor in Sport Management, Human Performance and Sport with concentrations in Exercise Science and Coaching. A Sport Media minor is also available.

### Academic Programs

- [Exercise Science Major, B.S.](#)
- [Sport Management Major, B.A.](#)
- [Human Performance and Sport Minor](#)
  - Exercise Science Concentration
  - Coaching Concentration
- [Sport Management Minor](#)
- [Sport Media Minor](#)

### Additional Requirement

A grade of "C" or better is required for all courses taken in any of the HPS major/minor concentrations.

### Exercise Science Major, B.S.

[Department of Human Performance and Sport](#)

[College of Health and Applied Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

This major is designed for students interested in the fitness and exercise science professions. Examples of professions in the fitness and exercise science field include: cardiac and pulmonary rehabilitation, physical medicine clinics, research, public and private industry wellness programs, worksite health promotion, recreation center wellness, strength and conditioning, and personal training for general and special populations.

Students who are interested in careers in exercise physiology, physical therapy, occupational therapy, or as a physician's assistant will find that the exercise science curriculum provides a solid academic foundation and includes many required prerequisites for those programs.

Exercise Science students must satisfy the General Studies, Multicultural, Global Diversity, and major requirements described below.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- Students that are pursuing a Bachelor of Science Degree in Exercise Science (ES) are encouraged to complete a professional certification prior to graduation. The certification must come from an NCCA Accredited certifying body and be complimentary to the students career goals. Two suggested certifications are: 1) American College of Sports Medicine - Certified Exercise Physiologist and 2) National Strength and Conditioning Associations - Certified Strength and Conditioning Specialist. The ES curriculum is designed to prepare students for those certifications.
- A total of 120 semester hours are required for graduation.
- A grade of "C" (73%) or better is required for all major courses and any associated prerequisite courses to count toward the Bachelors of Science degree in Exercise Science. Students should note that programs differ in the minimum grade required.
- Students must have at least a major GPA of 2.75 and completed all Exercise Science major courses to be eligible for an internship.
- A minor is not required for this program, but students may opt to declare one as part of their program.
- The department recommends that students take HPS 2060 - Emergency Rescue/First Responder & CPR or be able to verify an equivalent certification.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)

- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses that required for the major such as: BIO 1080 - General Biology I/ BIO 1090 - General Biology Laboratory I, and NUT 2040 - Introduction to Nutrition.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** ITP 1500 - Dynamics of Health, NUT 3101 - Body Image: Concepts and Approaches, NUT 3350 - Global Nutrition and Health, SM 2730 - Sport in Society
- Global Diversity (0 or 3 credits)\*\*

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended Courses:** HCM 3700 - Health Disparities in the U.S., NUT 3300 - Cultural Aspects of Nutrition, or ANT 3480 - Cultural Diversity in Health and Illness

### Exercise Science Major Required Courses: 51 credits

Students must choose one course from the following:

- EXS 2890 - Personal Training Concepts and Application **Credits: 3**
- EXS 4650 - Exercise Electrocardiography **Credits: 3 \***
- EXS 4772 - Advanced Strength and Conditioning **Credits: 3 \***
- HPS 1440 - Stress Management Techniques **Credits: 3**

Students must take each of the following:

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 2310 - Human Anatomy and Physiology I **Credits: 4 \***
- BIO 2320 - Human Anatomy and Physiology II **Credits: 4 \***
- HPS 1623 - Introductory Sports Medicine Concepts **Credits: 3**

- EXS 1020 - Resistance Training Techniques **Credits: 3**
- EXS 1640 - Physical Fitness Techniques and Programs **Credits: 3**
- EXS 3780 - Fitness Programs for Special Populations **Credits: 2 \***
- EXS 3790 - Fitness Programming for Children, Adolescents, and Older Adults **Credits: 3 \***
- EXS 3841 - Comparative Fitness Programs **Credits: 2 \***
- EXS 4680 - Advanced Fitness Assessment and Exercise Prescription **Credits: 4 \***
- EXS 4780 - Community Fitness Testing and Program Planning **Credits: 3 \***
- HPS 3300 - Anatomical Kinesiology **Credits: 3 \***
- HPS 3340 - Physiology of Exercise **Credits: 4 \***
- HPS 4660 - Legal Liability for Physical Educators, Coaches and Administrators **Credits: 3 \***
- NUT 2040 - Introduction to Nutrition **Credits: 3**

\*Please see course description for required prerequisite courses.

### Major Electives: 11 credits

The following course is a suggested elective.

- HPS 2060 - Emergency Rescue/First Responder & CPR **Credits: 3**
- See advisor for additional approved electives

### Senior Experience: 10 credits

- EXS 4880 - Internship in Exercise Science **Credits: 10**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	51 credits
Major Electives	11 credits
Senior Experience	10 credits
Unrestricted Electives	12-21
<b>Total for the Exercise Science Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Human Performance and Sport Minor

The human performance and sport minor concentrations are for students interested in sport coaching or exercise science. The primary

objective is to provide instructional studies in a liberal arts institution in human performance and sport, thereby enhancing one's knowledge, understanding, and skillful use of this area of study to pursue a better quality of life.

Additional requirement: A grade of "C" or better is required for all human performance and sport courses taken in any major/minor concentration. Students should note that programs differ in the minimum grade required.

## Sport Coaching Concentration

Students will take the required **Core I Courses** listed then select 2 additional classes from **Core II**. If additional credits are needed, choose from the approved Sport Coaching electives to meet the minimum of 18 credit hours.

### Required Core I Courses 11-13 credits

- HPS 2720 - Fundamentals of Coaching **Credits: 2**
- HPS 3700 - Psychology of Coaching **Credits: 2**
- HPS 3720 - Science and Art of Coaching and Athletic Administration **Credits: 3**
- HPS 3990 - Field Experience **Credits: 1, 2, or 3**
- NUT 3200 - Nutrition and Sports Performance **Credits: 3**

### Required II Core: choose two (2) courses 6 credits

*Sport Management Majors: take EXS 1020 and ATP 1623*

*Exercise Science Majors: take SM 2050 and HPS 2730*

- HPS 1623 - Introductory Sports Medicine Concepts **Credits: 3**
- EXS 1020 - Resistance Training Techniques **Credits: 3**
- SM 2050 - Introduction to Sport Management **Credits: 3**
- SM 2730 - Sport in Society **Credits: 3**

### Approved Electives

Choose from the courses below to fulfill the credit hour requirement

- HPL 1750 - Weight Training Level I **Credits: 2**
- HPL 1840 - Hatha Yoga I **Credits: 2**
- HPS 2700 - Wellness Coaching I **Credits: 3**
- HPS 4660 - Legal Liability for Physical Educators, Coaches and Administrators **Credits: 3**
- NUT 2040 - Introduction to Nutrition **Credits: 3**

Total: Minimum of 18 credits

## Exercise Science Concentration

- EXS 3780 - Fitness Programs for Special Populations **Credits: 2 \***
- EXS 3790 - Fitness Programming for Children, Adolescents, and Older Adults **Credits: 3 \***
- EXS 3841 - Comparative Fitness Programs **Credits: 2 \*\***
- EXS 4680 - Advanced Fitness Assessment and Exercise Prescription **Credits: 4 #**
- HPS 3990 - Field Experience **Credits: 1, 2, or 3**
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- HPS Electives (selection based on exercise science needs)

\* EXS 1640 is a prerequisite

\*\* EXS 1640 and BIO 2320 are prerequisites

# EXS 3340 is a prerequisite

Total: Minimum of 18 credit hours

## Sport Management Major, B.A.

[Department of Human Performance and Sport](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The MSU Denver Sport Management major prepares students to work in the growing and competitive field of sport management. Content within the major covers key areas, such as sport facility and event management, sport and social media, governance and management of amateur and professional sport, high school and collegiate athletics administration, and sport promotion and sponsorship.

The MSU Denver Sport Management program is accredited by the Commission on Sport Management Accreditation (COSMA).

### Student Outcomes

- Provide students with a core curriculum that allows students to develop the fundamental skills and knowledge required for successful management within the sport industry.
- Provide real world, hands-on experiences applying management principles and concepts within the sport industry.
- Embrace diversity, ethics, and social responsibility through course offerings and applied experiences.
- Expose students to current technology utilized in the industry and contemporary courses to better prepare them for careers in sport and/or graduate school.
- Provide students with opportunities to network into and within the sport industry and to demonstrate their

understanding of current issues and expected professionalism within the industry.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- SM 4610: Students who have not fulfilled all general education requirements through courses or transfer credit should strongly consider completing these requirements prior to registering for this course.
- Students must have a 2.80 GPA in the major to be eligible for an internship.
- SM 4890 and SM 4891 must be taken concurrently. Students must have completed a minimum of 36 credit hours within the major before they will be allowed to register for SM 4890 and SM 4891.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Courses: 48 credits

- HPS 3990 - Field Experience **Credits:** 1, 2, or 3 (must enroll for 3 credits)
- HPS 4660 - Legal Liability for Physical Educators, Coaches and Administrators **Credits:** 3
- SM 2050 - Introduction to Sport Management **Credits:** 3
- SM 2070 - Sport Venue Management **Credits:** 3
- SM 2300 - Sport Event Management **Credits:** 3
- SM 2730 - Sport in Society **Credits:** 3
- SM 3100 - Sport Media Operations **Credits:** 3
- SM 3200 - Sport Governance and Policy **Credits:** 3
- SM 3600 - Sport Promotion **Credits:** 3
- SM 3650 - Technology and Social Media in Sport **Credits:** 3
- SM 4600 - Organization and Administration of Sports **Credits:** 3
- SM 4610 - The Sport Enterprise **Credits:** 3
- SM 4890 - Internship for Sport Management **Credits:** 9
- SM 4891 - Professional and Career Development in Sport Management **Credits:** 3

## Approved Electives: 9 credits

9 credits approved by major advisor

- SM 3300 - Leadership and Ethics in Sport **Credits:** 3
- SM 3350 - Sport Literature and Film **Credits:** 3
- SM 3400 - Global Sport **Credits:** 3
- SM 4350 - Sport Analytics **Credits:** 3

## Senior Experience: 3 credits

- SM 4860 - Seminar in Sport Management **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	48 credits
Major Electives	9 credits
Senior Experience	3 credits
Unrestricted Electives	24-30 credits
Total for the Sport Management Major, B.A.	120 credits

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Sport Management Minor

The Sport Management minor prepares students for work in the growing and competitive field of sport management. Content within the minor covers key areas, such as sport facility and event management, sport social media, governance and policy, management of amateur and professional sport, high school and collegiate athletics administration, and sport promotion and sponsorship. Courses and professional experiences provided within the minor are designed to help students develop the intellectual and professional skills needed to meet the challenges of the 21st-century sport industry.

The minor requires 18 credit hours, 6 of which are elective.

### Required courses

Students are required to take SM-2050, SM-2070, SM-3600, and either SM-4600 OR SM-4610 OR SM-4860 (12 hrs)

- SM 2050 - Introduction to Sport Management **Credits: 3**
- SM 2070 - Sport Venue Management **Credits: 3**
- SM 3600 - Sport Promotion **Credits: 3**
  
- SM 4600 - Organization and Administration of Sports **Credits: 3**  
OR
- SM 4610 - The Sport Enterprise **Credits: 3**  
OR
- SM 4860 - Seminar in Sport Management **Credits: 3**

### Elective courses

Students must choose two of the following elective courses: SM-2300, SM-2730, SM-3100, SM-3200, SM-3650, HPS-3990, \*SM-4600, HPS-4660, \*SM-4610, or \*SM-4860 (6 hrs).

- SM 2300 - Sport Event Management **Credits: 3**
- SM 2730 - Sport in Society **Credits: 3**
- SM 3100 - Sport Media Operations **Credits: 3**
- SM 3200 - Sport Governance and Policy **Credits: 3**
- SM 3650 - Technology and Social Media in Sport **Credits: 3**
- HPS 3990 - Field Experience **Credits: 1, 2, or 3**
- HPS 4660 - Legal Liability for Physical Educators, Coaches and Administrators **Credits: 3**

\*if not selected under required courses.

## Department of Human Services and Counseling

The Department of Human Services and Counseling at Metropolitan State University of Denver prepares students for careers in the human services profession: assisting individuals, couples, and families in meeting the challenges of living throughout the life cycle. The core curriculum offers introductory courses in human services, ethics, multicultural issues and at least 600 hours of field experience. The Department of Human Services and Counseling offers two majors; Human Services, and Fire and Emergency Response Administration. In the Human Services major, there are concentrations focused on specific counseling and service disciplines, including mental health, addictions, high risk youth, trauma and nonprofit studies. A paramedic concentration toward a degree is available to currently Certified Paramedics through Denver Health. Human Services students are not required to complete a minor, although students majoring in other areas may minor in human services areas.

### Academic Programs

- [Fire and Emergency Response Administration, B.S.](#)
- [Fire and Emergency Response Administration Extended Major, B.S.](#)
- [Fire and Emergency Response Administration Minor](#)
- [Human Services Major, B.S.](#)
- [Human Services Minor](#)
- [Nonprofit Studies Minor](#)
- [Trauma Studies Minor](#)
- [Nonprofit Studies Certificate](#)
- [High Risk Youth Studies Certificate](#)

This nationally recognized curriculum is approved by the Council for Standards in Human Service Education. The Department is also recognized in Colorado by the Office of Behavioral Health (a combination of the Mental Health and Addiction treatment service divisions) of the Colorado Department of Human Services and provides course work that leads to all three levels of Colorado Certified Addiction Counselor [CAC]. Other specialized programs provide certificates in High Risk Youth Studies and Nonprofit Studies. Multicultural issues in the delivery of human services are addressed throughout the curriculum. Field instruction and experiences at community agencies further classroom learning and provide networking and career development opportunities for students.

### Employment Outlook and Further Study

Graduates with degrees in human services are qualified to work in a variety of settings, including community mental health centers, addiction treatment centers, nonprofit organizations, and social service agencies. The program has historically generated a high employment rate for our graduates in careers directly related to the major. Many Human Services graduates go on to complete graduate degrees and licensure in marriage and family counseling, psychology, pastoral counseling, social work, addiction studies, public administration, or other areas, including business and law. If graduate

study is part of your career plans, please talk with an advisor about options and necessary course work for entry into such programs.

## Accreditation

The department is nationally accredited by the Council for Standards in Human Service Education. Graduates can apply to become a Human Services Board Certified Practitioner. Certain classes in the curriculum are required to qualify for licensure. Please see an advisor. The Department of Human Services and Counseling offers four concentrations: Addiction Studies, High Risk Youth, Mental Health Counseling, and Nonprofit Studies. The department also accepts credits from the Denver Health Paramedic Program to support a Paramedic Concentration. All FERA curriculum meets national standards for the Fire and Emergency Services Higher Education criteria.

## Fire and Emergency Response Administration Extended Major, B.S.

[Department of Human Services  
and Counseling](#)

[College of Health and Applied  
Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The mission of the MSU Denver Fire and Emergency Response Administration (FERA) degree program is to promote higher education and to enhance the value of the fire and emergency response professions in order to promote a safer community and to reduce the loss of life, property, and the number of physical and emotional casualties from fire and other life-threatening events.

MSU Denver is one of only a few college and university programs in the country to carry the "Certificate of Recognition" from the National Fire Academy-Fire and Emergency Services Higher Education for every FESHE course offered by the university.

Fire and Emergency Response courses at MSU are part of a nationally standardized curriculum based on the National Fire Academy-Fire and Emergency Services Higher Education (FESHE) Model Curriculum and are intended to meet higher education criteria set forth by the National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC).

## Student Outcomes

- Improve language, writing, and communication skills
- Exercise analytical and critical thinking
- Develop awareness of current global management issues in emergency services
- Develop a broad knowledge base of emergency services
- Apply management models compatible with the National Incident Management System
- Understand community risk reduction and mitigation efforts

- Understand the science and data behind fire investigations and tactical operations
- Gain insight into human behavior during emergencies
- Acquire insight into modern political and legal limitations on emergency services
- Understand the need for ethical leadership

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program unless the student does the Fire and Emergency Response Administration, B.S.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1110 - College Algebra for  
Calculus

**Recommended:** MTH 1210 - Introduction to  
Statistics

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits)\*\*

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

24 credit hours must be taken at a regionally accredited Colorado Community College or possess a state or national certification in these areas.

## Required Courses: 21 credits

- FER 3000 - Applications of Fire Research **Credits:** 3
- FER 3110 - Community Risk Reduction for Fire and Emergency Services **Credits:** 3
- FER 3140 - Fire and Emergency Services Administration **Credits:** 3
- FER 3200 - Fire Prevention, Organization, and Management **Credits:** 3
- FER 3430 - Personnel Development for Fire and Emergency Services **Credits:** 3
- FER 3460 - Political and Legal Foundations for Fire Protection **Credits:** 3
- FER 3911 - Cultural Competence for First Responders **Credits:** 3

- 9 credits Firefighter I
- 12 credits EMT Basic Certificate
- 3 Credits Hazardous Materials Operation Certificate

or

Have a current and valid Colorado and/or national Paramedic Certification

## Senior Experience: 3 credits

- FER 4610 - Disaster Planning and Control **Credits:** 3

## Electives: 12 credits

Students must select 12 credits from the following:

- FER 1020 - Introduction to Trauma Informed Care for First Responders **Credits:** 3
- FER 3980 - Internship: Fire and Emergency Response **Credits:** 1-6
- FER 4100 - Analytical Approaches to Public Fire Protection **Credits:** 3
- FER 4220 - Fire Dynamics **Credits:** 3
- FER 4260 - Fire Investigation and Analysis **Credits:** 3
- FER 4310 - Fire Protection Structures and Systems **Credits:** 3
- FER 4420 - Fire-Related Human Behavior **Credits:** 3
- FER 4510 - Managerial Issues in Hazardous Materials **Credits:** 3
- HSP 3220 - Conflict Resolution and Decision Making **Credits:** 3 \*
- HSP 3450 - Crisis Intervention **Credits:** 3 \*\*
- HSP 3500 - Domestic Violence: Patterns of Relationship Abuse **Credits:** 2 \*
- HSP 3600 - Domestic Violence: Perpetrators of Abuse **Credits:** 2 \*
- HSP 3940 - Victim Advocacy for Survivors of Interpersonal Violence **Credits:** 3 \*\*\*
- HSP 4160 - Human Trafficking **Credits:** 3 \*\*\*\*\*
- MGT 3000 - Organizational Management **Credits:** 3 ^
- MGT 4530 - Organizational Behavior **Credits:** 3 ^^
- PSC 3020 - Introduction to Public Administration **Credits:** 3 ~
- PSC 3170 - Leadership Studies **Credits:** 3 ~
- COMM 3010 - Business and Professional Speaking **Credits:** 3  
^^^

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	21 credits
Major Electives	12 credits
Additional Requirements	24 credits
Senior Experience	3 credits
Unrestricted Electives	24-27 credits
<b>Total for the Fire and Emergency Response Administration Extended Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Notes

\* Prerequisite: General Studies Written Communication requirement

\*\* Prerequisite: General Studies Written Communication requirement; HSP 1010 and HSP 2030 as prerequisites

\*\*\* Prerequisite: GWS 1001 plus six hours in GWS or HSP 1010 plus six hours in HSP

\*\*\*\*\* Prerequisite: GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or PSY 1001, or SWK 1010

^ Prerequisite: ENG 1010, ENG 1020, completion of General Studies requirements in Oral Communication and Quantitative Literacy, and at least junior standing

^^ Prerequisite: MGT 3000

^^^ Prerequisite: COMM 1010

~ Prerequisite: PSC 1010 or PSC 1020

## Additional Requirements

~~ Prerequisite: *Written Communication, Oral Communication and Quantitative Literacy*

## Fire and Emergency Response Administration Minor

The minor requires a total of 18 credits. Students must take FER 3110 and FER 3140 and select an additional 12 credits of coursework with a FER prefix. Students must earn a "C" or higher in all classes in the minor.

## Fire and Emergency Response Administration, B.S.

[Department of Human Services and Counseling](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The mission of the MSU Denver Fire and Emergency Response Administration (FERA) degree program is to promote higher education and to enhance the value of the fire and emergency response professions in order to promote a safer community and to reduce the loss of life, property, and the number of physical and emotional casualties from fire and other life-threatening events.

MSU Denver is one of only a few college and university programs in the country to carry the "Certificate of Recognition" from the National Fire Academy-Fire and Emergency Services Higher Education for every FESHE course offered by the university.

Fire and Emergency Response courses at MSU are part of a nationally standardized curriculum based on the National Fire Academy-Fire and Emergency Services Higher Education (FESHE) Model Curriculum and are intended to meet higher education criteria set forth by the National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC).

### Student Outcomes

- Improve language, writing, and communication skills
- Exercise analytical and critical thinking
- Develop awareness of current global management issues in emergency services
- Develop a broad knowledge base of emergency services
- Apply management models compatible with the National Incident Management System
- Understand community risk reduction and mitigation efforts
- Understand the science and data behind fire investigations and tactical operations
- Gain insight into human behavior during emergencies
- Acquire insight into modern political and legal limitations on emergency services

- Understand the need for ethical leadership

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program unless the student does the Fire and Emergency Response Administration Extended Major, B.S.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1110 - College Algebra for Calculus

**Recommended:** MTH 1210 - Introduction to Statistics

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits)\*\*

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation

Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement.

Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Courses: 21 credits

- FER 3000 - Applications of Fire Research **Credits:** 3  
 FER 3110 - Community Risk Reduction for Fire and Emergency Services **Credits:** 3  
 FER 3140 - Fire and Emergency Services Administration **Credits:** 3  
 FER 3200 - Fire Prevention, Organization, and Management **Credits:** 3  
 FER 3430 - Personnel Development for Fire and Emergency Services **Credits:** 3  
 FER 3460 - Political and Legal Foundations for Fire Protection **Credits:** 3  
 FER 3911 - Cultural Competence for First Responders **Credits:** 3

## Electives: 16 credits

Students select 16 credits from the following:

- FER 1020 - Introduction to Trauma Informed Care for First Responders **Credits:** 3  
 FER 3980 - Internship: Fire and Emergency Response **Credits:** 1-6  
 FER 4100 - Analytical Approaches to Public Fire Protection **Credits:** 3  
 FER 4220 - Fire Dynamics **Credits:** 3  
 FER 4260 - Fire Investigation and Analysis **Credits:** 3  
 FER 4310 - Fire Protection Structures and Systems **Credits:** 3  
 FER 4420 - Fire-Related Human Behavior **Credits:** 3  
 FER 4510 - Managerial Issues in Hazardous Materials **Credits:** 3  
 HSP 3220 - Conflict Resolution and Decision Making **Credits:** 3 \*  
 HSP 3450 - Crisis Intervention **Credits:** 3 \*\*  
 HSP 3500 - Domestic Violence: Patterns of Relationship Abuse **Credits:** 2 \*  
 HSP 3600 - Domestic Violence: Perpetrators of Abuse **Credits:** 2 \*  
 HSP 3940 - Victim Advocacy for Survivors of Interpersonal Violence **Credits:** 3 \*\*\*  
 HSP 4160 - Human Trafficking **Credits:** 3 \*\*\*\*\*  
 COMM 3010 - Business and Professional Speaking **Credits:** 3  
 ^^  
 MGT 3000 - Organizational Management **Credits:** 3 ^  
 MGT 4530 - Organizational Behavior **Credits:** 3 ^^  
 PSC 3020 - Introduction to Public Administration **Credits:** 3 ~  
 PSC 3170 - Leadership Studies **Credits:** 3 ~

**Subtotal: 16 credits**

## Senior Experience: 3 credits

- FER 4610 - Disaster Planning and Control **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	21 credits
Major Electives	16 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	44-47 credits
<b>Total for the Fire and Emergency Response Administration, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Notes

- \* Prerequisite: General Studies Written Communication requirement  
 \*\* Prerequisite: General Studies Written Communication requirement; HSP 1010 and HSP 2030 as prerequisites  
 \*\*\* Prerequisite: GWS 1001 plus six hours in GWS or HSP 1010 plus six hours in HSP  
 \*\*\*\* Prerequisite: GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or PSY 1001, or SWK 1010  
 ^ Prerequisites: ENG 1010, ENG 1020, completion of General Studies requirements in Oral Communication and Quantitative Literacy, and at least junior standing  
 ^^ Prerequisite: MGT 3000  
 ^^ Prerequisite: COMM 1010  
 ~ Prerequisite: PSC1010 or PSC 1020  
 ~ Prerequisite: Written Communication, Oral Communication and Quantitative Literacy

## High Risk Youth Studies Certificate

The 16-hour Certificate of Completion in High Risk Youth Studies is a comprehensive learning opportunity for those persons who wish to learn about current practices for the prevention, intervention, and treatment of high risk youth in a wide variety of practice settings. In order to qualify for the Certificate of Completion in High Risk Youth Studies, the student must complete an application verifying 300 hours of clinical or volunteer experience working with youth at risk. Contact the Center for High Risk Youth Studies (CHRY) in the Human Services and Counseling Department at 303-615-0700 for more information. Students must complete each course in the certificate program with a grade of "C" or better.

## Required Courses:

- HSP 3230 - High Risk and Offender Youth **Credits:** 3  
 HSP 3260 - Systems Serving Youth **Credits:** 2  
 HSP 3490 - Multicultural Issues in Human Services **Credits:** 4  
 HSP 3590 - Counseling the Resistant Adolescent Client **Credits:** 2  
 HSP 4540 - Youth, Drugs, and Gangs **Credits:** 2

3 credit elective chosen from the following courses:  
 CJC 3350 - Juvenile Justice and Delinquency **Credits:** 3  
 SWK 3010 - Social Work Practice with Children and Youth  
**Credits:** 3  
 SOC 3400 - Child and Adolescent Socialization **Credits:** 3  
 PSY 3260 - Psychology of Adolescence **Credits:** 3  
 HSP 1020 - Introduction to Trauma Informed Care **Credits:** 3  
 HSP 3550 - Intimate Partner Violence **Credits:** 3  
 HSP 4160 - Human Trafficking **Credits:** 3

Total hours for certificate: 16

## Notes:

*\*A three semester hour elective in a related subject area to be selected by the student in consultation with a High Risk Youth advisor. Note that CJC 3350, Juvenile Justice and Delinquency, is recommended, but other courses may be included as part of the certificate of completion as relevant to the individual student's needs, career goals and interests.*

## Human Services Major, B.S.

[Department of Human Services and Counseling](#)

[College of Health and Applied Sciences](#)

Available Program  
 Format(s): [In-Person](#)

## About the Program

Human Services refers to the art and science of helping people. At MSU Denver, students get just the right mix of hands-on experience and challenging study to become consummate and compassionate professionals. Within the Human Services major, you can choose between six study concentrations: Addiction Studies, High Risk Youth Studies, Mental Health Counseling, Nonprofit Studies, Trauma Studies and Paramedic (transfer in credit only). Most concentrations in our major are accredited through the National Council for Standards in Human Service Education. The Department of Human Services and Counseling at Metropolitan State University of Denver prepares students to become competent, self-reflective practitioners in the delivery of human services. At the core of the curriculum is an emphasis on experiential learning in the classroom and through intensive field experience and study abroad opportunities. In addition, the department offers an "Early Entry to the Master of Science in Clinical Behavioral Health, Emphasis in Addictions Counseling Pathway" for students who wish to begin their masters program while completing their undergraduate requirements. The department is committed to supporting students to develop high ethical standards and cultural sensitivity while becoming agents for positive change in people's lives and in their communities.

## Student Outcomes

- Students will **evaluate** the scope of conditions that impact all levels of human systems: individual, family, group, community, and society.
- Students will **explore** the mission and services of local organizations and their role and community impact
- Students will **examine** their own culture and values as well as those of communities other than their own and the implications for working with diverse communities.
- Students will **acquire** skills necessary to facilitate change at an individual, family, group, and/or programmatic level.
- Students will **demonstrate** professional behavior and ethical decision-making skills in the context of the human services/nonprofit sector.
- Students will **develop** clear professional writing and effective verbal and interpersonal communication skills.
- Students will **apply** knowledge and skills related to effective direct service delivery and appropriate interventions in their concentration area.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- For students in the "Early Entry Master of Science Pathway" A grade of "B-" or better is required in any graduate Human Services and Counseling course to be applied towards their undergraduate and graduate degree requirements.
- A minor is not required for this program.
- Students participate in field experience as part of this major, contributing to professional experience, skill development, networking, and resume-building.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
 Oral Communication (3 credits)  
 Quantitative Literacy (3 credits)

**Recommended:** MTH 1210 - Introduction to Statistics, is recommended for students interested in pursuing a master's degree.

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** NUT 2040 - Introduction to Nutrition is recommended

Social and Behavioral Sciences (6 credits)

Recommended: HSP 1010 - Introduction to Human Services can count towards both the major and the General Studies requirements.

Recommended: HSP 1020 - Introduction to Trauma Informed Care, can count towards both the major and the General Studies requirements.

Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement.

Students should consult with their advisor to determine what program courses may fulfill this requirement.

**Recommended:** HSP 3490 - Multicultural Issues in Human Services

### Major Required Courses: 23 credits

HSP 1010 - Introduction to Human Services **Credits:** 3

HSP 1020 - Introduction to Trauma Informed Care **Credits:** 3

HSP 2010 - Introduction to High-Impact Nonprofit Organizations **Credits:** 3

HSP 2070 - Pre-Field Placement Seminar **Credits:** 1

HSP 3330 - Ethical and Legal Issues in Human Services **Credits:** 3

HSP 3490 - Multicultural Issues in Human Services **Credits:** 4

HSP 3560 - Motivational Interviewing **Credits:** 2

HSP 3710 - Research Methods and Program Evaluation in Human Services **Credits:** 4

### Senior Experience: 8 credits

All students will complete the following course for their Senior Experience requirement.

HSP 4770 - Human Services Internship I **Credits:** 8

### Addiction Studies Concentration: 53 credits

This concentration will provide students with broad knowledge and skills that are in all behavioral health services. Upon completion of the program, students are eligible to apply for certification in

Colorado as an addiction counselor (CAC I). The counseling skills, training and knowledge that students receive are on the cutting edge of evidence-based outcome studies and best practices. Graduates attain skills and attitudes necessary to function as professional addiction counselors and that may lead to national certification. These are the required courses to fulfill OBHs educational requirements for CAC I-III.

HSP 2020 - Small Group Dynamics: Theory and Experience

**Credits:** 4

HSP 2030 - Theory and Practice of Counseling **Credits:** 4

HSP 2040 - Family Systems **Credits:** 4

HSP 3400 - Pharmacology of Drugs and Alcohol **Credits:** 3

HSP 3460 - Addiction, Immunity, and Infectious Diseases

**Credits:** 2

HSP 3470 - Counseling the Substance Abuser **Credits:** 4

HSP 3660 - Advanced Motivational Interviewing and Applied Counseling Skills **Credits:** 2

HSP 4040 - Cognitive Behavior Therapy **Credits:** 3

HSP 4660 - Clinical Supervision in Human Services **Credits:** 3

HSP 4320 - Psychopathology and the Mental Health Clinician

**Credits:** 4

HSP 4780 - Human Services Internship II **Credits:** 8

HSP 4790 - Human Services Internship III **Credits:** 6 or 12

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Required Courses	23 credits
Addiction Studies Concentration	53 credits
Senior Experience	8 credits
Unrestricted Electives	0-9 credits
<b>Total for the Human Services Major, B.S., Addiction Studies Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### High Risk Youth Studies Concentration: 41-42 credits

This concentration prepares the human services professional to work in a variety of settings that serve high risk youth. Some possible program locations include outpatient counseling, institutional settings, juvenile corrections, schools, mentoring sites, and child protection. Students are also encouraged to have an understanding of substance abuse, domestic violence, and trauma as part of their degree program, due to the strong overlap between high risk youth behaviors and these issues.

- HSP 2020 - Small Group Dynamics: Theory and Experience  
**Credits: 4**
- HSP 2030 - Theory and Practice of Counseling **Credits: 4**
- HSP 2040 - Family Systems **Credits: 4**
- HSP 2105 - Foundations of Trauma Counseling **Credits: 3**
- HSP 3220 - Conflict Resolution and Decision Making **Credits: 3**
- HSP 3230 - High Risk and Offender Youth **Credits: 3**
- HSP 3260 - Systems Serving Youth **Credits: 2**
- HSP 3590 - Counseling the Resistive Adolescent Client  
**Credits: 2**
- HSP 4540 - Youth, Drugs, and Gangs **Credits: 2**
- HSP 4780 - Human Services Internship II **Credits: 8**

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Required Courses	23 credits
High Risk Youth Studies Concentration	41-42 credits
Senior Experience	8 credits
Suggested and Unrestricted Electives	14-15 credits
<b>Total for the Human Services Major, B.S., High Risk Youth Studies Concentration</b>	<b>120 credits</b>

Choose one of the following:

- CJC 3350 - Juvenile Justice and Delinquency **Credits: 3**
- PSY 2210 - Psychology of Human Development **Credits: 3**
- PSY 3260 - Psychology of Adolescence **Credits: 3**  
\*PSY 2210 and PSY 3260 have a required prerequisite of PSY 1001 Introductory Psychology (may be applied to General Studies)
- SOC 3400 - Child and Adolescent Socialization **Credits: 3**  
\*Required Prerequisite: SOC 1010 Introduction to Sociology (may be applied to General Studies)
- SWK 3010 - Social Work Practice with Children and Youth  
**Credits: 3**

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Mental Health Counseling Concentration: 36 credits

The Mental Health Counseling concentration teaches students about counseling theory and develops client interaction skills to assist clients to cope with life's personal and emotional challenges. This concentration prepares students for entry-level employment in community mental health, nonprofit counseling agencies, employee assistance programs, and general human service delivery systems under the supervision of licensed mental health professionals.

Choose one of the following:

- HSP 3070 - Advanced Behavioral Analysis **Credits: 3**
- HSP 4320 - Psychopathology and the Mental Health Clinician  
**Credits: 4**

Students are encouraged to pursue graduate education in a variety of areas, including human services, counseling, psychology, social work direct services, addiction counseling, marriage and family, and pastoral counseling programs. Students should note that professional counseling licensure requires the completion of a graduate degree, passing a comprehensive examination, and completing a period of practice supervised by a licensed mental health professional.

## Electives: 14-15

The following electives are recommended for a comprehensive education in working with high risk youth.

- HSP 1470 - Addictive Experiences: Sex, Drugs, Rock and Roll  
**Credits: 3**  
or
- HSP 3430 - Addictive Behaviors **Credits: 3**
- HSP 3000 - Community Change in Human Services **Credits: 3**
- HSP 3500 - Domestic Violence: Patterns of Relationship Abuse  
**Credits: 2**  
or
- HSP 3600 - Domestic Violence: Perpetrators of Abuse **Credits: 2**
- HSP 4040 - Cognitive Behavior Therapy **Credits: 3**
- HSP 4200 - Child Abuse and Neglect **Credits: 2**
- HSP 4250 - Counseling the Gay, Lesbian, Bisexual, or Transgender Client **Credits: 2**
- HSP 4290 - Posttraumatic Stress Disorder and Trauma Informed Care **Credits: 1**

- HSP 2020 - Small Group Dynamics: Theory and Experience  
**Credits: 4**
- HSP 2030 - Theory and Practice of Counseling **Credits: 4**
- HSP 2040 - Family Systems **Credits: 4**
- HSP 2105 - Foundations of Trauma Counseling **Credits: 3**
- HSP 3070 - Advanced Behavioral Analysis **Credits: 3**
- HSP 3220 - Conflict Resolution and Decision Making **Credits: 3**
- HSP 4040 - Cognitive Behavior Therapy **Credits: 3**
- HSP 4320 - Psychopathology and the Mental Health Clinician  
**Credits: 4**
- HSP 4780 - Human Services Internship II **Credits: 8**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits

## Summary of Requirements

Major Required Courses	23 credits
Mental Health Counseling Concentration	36 credits
Senior Experience	8 credits
Unrestricted Electives	17-26 credits
<b>Total for the Human Services Major, B.S., Mental Health Counseling Concentration</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Nonprofit Studies Concentration: 24 credits

This concentration provides both degree-seeking and career advancement professionals with the academic background and management skills necessary to become effective managers in a variety of nonprofit settings.

HSP 2780 - Building A Sustainable Nonprofit **Credits: 3**

HSP 3210 - Organizing and Advocacy for Social Change  
**Credits: 3**

HSP 3220 - Conflict Resolution and Decision Making **Credits: 3**

HSP 3510 - The People of Nonprofits: Staff, Board, Volunteers, Clients and You **Credits: 3**

HSP 3810 - Fundraising Strategies for Nonprofit Organizations  
**Credits: 3**

HSP 4030 - Grantwriting for Social Change **Credits: 3**

HSP 4450 - Nonprofit Financial Management and Financing  
**Credits: 3**

Choose one of the following:

HSP 2760 - Social Media for Social Change **Credits: 3**

HSP 3860 - Social Entrepreneurship **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirements	0-3 credits
Major Required Courses	23 credits
Nonprofit Studies Concentration	24 credits
Senior Experience	8 credits
Unrestricted Electives	29-38 credits
<b>Total for the Human Services Major, B.S., Nonprofit Studies Concentration</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Pathway for Current Paramedics: 16 credits

The Pathway for Current Paramedics is designed for students interested in combining their previous paramedic training with additional academic course work. Students with a current and valid Colorado and/or national Paramedic Certification will receive 24 credits towards their degree requirements.

HSP 2020 - Small Group Dynamics: Theory and Experience

**Credits: 4**

HSP 2030 - Theory and Practice of Counseling **Credits: 4**

HSP 2040 - Family Systems **Credits: 4**

HSP 4320 - Psychopathology and the Mental Health Clinician

**Credits: 4**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Required Courses	23 credits
Additional Required Human Services Courses	16 credits
Paramedic Certification	24 credits
Senior Experience	8 credits
Unrestricted Electives	13-22 credits
<b>Total for the Human Services Major, B.S., Paramedic Pathway</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Trauma Studies Concentration: 41 credits

There is a strong documented connection between trauma and subsequent mental health and substance abuse issues. The concentration in Trauma Studies offers students the ability to gain practical knowledge and skills necessary for careers that serve a client population that likely has experienced trauma. Students will examine the myriad effects of trauma on physical, emotional, cognitive, and behavioral functioning as well as the skills necessary to be effective with this population. Coursework focuses on both trauma and complex trauma, the impact trauma has on overall functioning, and treatment interventions and supportive activities for practitioners who work with this population. The concentration in Trauma Studies was designed not only to allow students choice in meeting their educational and career goals but also to prepare them well for graduate study, as students who want to be counselors are encouraged to continue their education at the graduate level upon graduation.

HSP 2020 - Small Group Dynamics: Theory and Experience

**Credits: 4**

HSP 2030 - Theory and Practice of Counseling **Credits: 4**

HSP 2040 - Family Systems **Credits: 4**  
 HSP 2105 - Foundations of Trauma Counseling **Credits: 3**  
 HSP 3105 - Exploring the Impact of Trauma Counseling  
**Credits: 3**  
 HSP 3220 - Conflict Resolution and Decision Making **Credits:**  
 3  
 HSP 3660 - Advanced Motivational Interviewing and Applied  
 Counseling Skills **Credits: 2**  
 HSP 4040 - Cognitive Behavior Therapy **Credits: 3**  
 HSP 4105 - Advanced Trauma Counseling Skills **Credits: 3**  
 HSP 4320 - Psychopathology and the Mental Health Clinician  
**Credits: 4**  
 HSP 4780 - Human Services Internship II **Credits: 8**

HSP 2040 - Family Systems **Credits: 4**  
 HSP 3220 - Conflict Resolution and Decision Making **Credits:**  
 3  
 HSP 3330 - Ethical and Legal Issues in Human Services  
**Credits: 3**  
 HSP 3470 - Counseling the Substance Abuser **Credits: 4**  
 HSP 3490 - Multicultural Issues in Human Services **Credits: 4**  
 HSP 4320 - Psychopathology and the Mental Health Clinician  
**Credits: 4**

### Application and Bridge Semester: 13 credits

After completing 61 credits and the required course work, students may apply for the Early Entry master's program. Students complete the regular master's application. Students should take the following courses during the semester in which their application is being reviewed.

HSP 2010 - Introduction to High-Impact Nonprofit  
 Organizations **Credits: 3**  
 HSP 2070 - Pre-Field Placement Seminar **Credits: 1**  
 HSP 4040 - Cognitive Behavior Therapy **Credits: 3**  
 Elective Courses **Credits: 6**

### Undergraduate Status Taking Masters Courses: 36 credits

Students who are accepted into the program can start taking "dual use" master's classes which will count towards both an undergraduate and graduate degree. Students will remain classified as undergraduate but pay graduate tuition rates for any master's level course. Courses designated (dual purpose) will count towards undergraduate and graduate degree requirements. BHAM courses without this designation (dual purpose) will count only towards graduate degree requirements. Students need a B- or higher in all BHAM courses to count towards both undergraduate and graduate degree requirements.

Students should consult the graduate catalog for further information regarding course information and program requirements at the graduate level.

HSP 4780 - Human Services Internship II **Credits: 8**  
 BHAM 5001 Advanced Ethical Practice **Credits: 3**  
 BHAM 5003 Development Across the Lifespan **Credits: 3**  
 BHAM 5009 Addiction Counseling, Intervention and Prevention  
 I **Credits: 3**  
 BHAM 5005 Theory and Techniques in Helping Relationships  
 (dual purpose) **Credits: 3**  
 BHAM 5006 Group Counseling Theory and Techniques (dual  
 purpose) **Credits: 3**  
 BHAM 5008 Research and Evaluation (dual purpose) **Credits: 3**  
 BHAM 5010 Addiction Counseling, Intervention and Prevention  
 II (dual purpose) **Credits: 3**  
 BHAM 5011 Clinical Supervision and Advocacy (dual purpose)  
**Credits: 3**  
 BHAM 5014 Psychopharmacology, Neurobiology, and  
 Infectious Diseases (dual purpose) **Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Required Courses	23 credits
Trauma Studies Concentration	41 credits
Senior Experience	8 credits
Unrestricted Electives	12-21 credits
<b>Total for the Human Services Major, B.S. Trauma Studies Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Early Entry to Master in Clinical Behavioral Health, Emphasis in Addictions Counseling Pathway

This pathway allows students to begin their graduate work while completing their undergraduate requirements. Students may apply to the Early Entry Master of Health in Clinical Behavioral Health, Emphasis in Addictions Counseling program after completing 61 credit hours in their bachelor's program including all General Studies requirements (33 credits) and specified courses in the department (28 credits). Any graduate level course counting towards either the undergrad or graduate degree must be completed with a 'B-' or higher. Students may complete their bachelor's degree at 120 credits (through our department if all requirements have been met, or through the Individualized Degree Program, if applicable).

### Pre-Application to Master's Program: 28 credits

Students need to complete all of their general studies courses (33) plus 28 credits of department courses.

HSP 1010 - Introduction to Human Services **Credits: 3**  
 HSP 1020 - Introduction to Trauma Informed Care **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Preapplication Courses	28 credits
Application and Bridge Courses	13 credits
Dual Purpose Courses	36 credits
Senior Experience	8 credits
Unrestricted Electives	0-8 credits
Total for the Human Services Major, B.S. Early Entry Pathway	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Human Services Minor

The minor in Human Services complements majors such as Psychology, Human Development, Criminal Justice, Sociology, Chicano Studies, African American Studies and Women's Studies by providing the practical, applied knowledge and skills to work with a variety of client populations. The minor in Human Services is designed to allow you to choose courses that meet your educational and career goals.

24 credits are required for the minor and must include HSP 1010 - Introduction to Human Services and HSP 2030 - Theory and Practice of Counseling. 8 credits need to be upper division. Classes that meet the state requirements to become a Certified Addictions Counselor can be included in this minor. A grade of "C" or better is required for each course in this program to count towards the bachelor's degree.

Please see a department advisor to discuss your goals and select classes for your minor.

## HSP Minor

HSP 1010 - Introduction to Human Services **Credits: 3**  
 HSP 2030 - Theory and Practice of Counseling **Credits: 4**  
 Elective Credits: 17

Total: 24 credits

## Nonprofit Studies Certificate

This certificate of completion is intended to provide additional knowledge and skills in the area of Non-Profit Studies. This certificate program is designed for working professionals and non-degree-seeking students who may or may not have a baccalaureate or master's degree or agency training in the administration and management of nonprofit and public organizations. Non-degree

students may select only those classes that meet their professional goals. All courses within this certificate can be applied toward the completion of the Human Services Major, B.S..

## Required Courses:

HSP 2010 - Introduction to High-Impact Nonprofit Organizations **Credits: 3**

## Choose five of the following:

HSP 2760 - Social Media for Social Change **Credits: 3**

HSP 2780 - Building A Sustainable Nonprofit **Credits: 3**  
 And/Or

HSP 3860 - Social Entrepreneurship **Credits: 3**

HSP 3000 - Community Change in Human Services **Credits: 3**

HSP 3210 - Organizing and Advocacy for Social Change **Credits: 3**

HSP 3510 - The People of Nonprofits: Staff, Board, Volunteers, Clients and You **Credits: 3**  
 And/Or

HSP 4310 - Human Resource Development in Nonprofit Organizations **Credits: 3**

HSP 4030 - Grantwriting for Social Change **Credits: 3**

HSP 4450 - Nonprofit Financial Management and Financing **Credits: 3**  
 And/Or

HSP 3610 - Financial Accountability and Organizational Control in Nonprofit Organizations **Credits: 3**

HSP 3810 - Fundraising Strategies for Nonprofit Organizations **Credits: 3**

HSP 4710 - Critical Issues for Nonprofits **Credits: 3**

HSP 4800 - Designing the 21st Century Nonprofit Organization **Credits: 3**

## Total:

Total hours for certificate: 18

## Notes:

In order to qualify for the Nonprofit Studies Certificate, an applicant must be accepted as an MSU Denver student and complete an application verifying 300 hours of volunteer or paid experience working in the nonprofit studies field. Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

For more information, contact the Department of Human Services and Counseling at 303-615-0700.

## Nonprofit Studies Minor

The minor in Nonprofit Studies consists of 18 semester hours. Students choosing this minor must select courses from the Nonprofit Studies area of concentration (See Human Services Major, B.S. for

course information) and present a proposal to the Director of the Center for Nonprofit Studies for consideration and approval.

A grade of "C" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Trauma Studies Minor

The minor in Trauma Studies complements majors such as Psychology, Fire and Emergency Response, Human Development, Criminal Justice, and Sociology by providing practical knowledge and skills necessary for careers that serve a client population that has experienced trauma. Students will learn about trauma and complex trauma, the impact trauma has on overall functioning as well as treatment interventions and supportive activities for practitioners who work with this population. The minor in Trauma Studies is designed to allow the student to choose courses that meet their educational and career goals as well as prepare them well for graduate study. The student must meet the University's graduation requirements for a baccalaureate degree. A letter grade of "C" or better is required in each Human Services and Counseling course.

## Trauma Minor (19 credits)

Courses of Minor in Trauma Studies

- HSP 1010 - Introduction to Human Services **Credits: 3**
- HSP 1020 - Introduction to Trauma Informed Care **Credits: 3**
- HSP 2030 - Theory and Practice of Counseling **Credits: 4**
- HSP 2105 - Foundations of Trauma Counseling **Credits: 3**
- HSP 3105 - Exploring the Impact of Trauma Counseling **Credits: 3**
- HSP 4105 - Advanced Trauma Counseling Skills **Credits: 3**

## Suggested Electives (choose 5 credits)

- HSP 3450 - Crisis Intervention **Credits: 3**
- HSP 3490 - Multicultural Issues in Human Services **Credits: 4**
- HSP 3550 - Intimate Partner Violence **Credits: 3**
- HSP 3940 - Victim Advocacy for Survivors of Interpersonal Violence **Credits: 3**
- HSP 4160 - Human Trafficking **Credits: 3**
- HSP 4200 - Child Abuse and Neglect **Credits: 2**
- HSP 4320 - Psychopathology and the Mental Health Clinician **Credits: 4**
- HSP 4540 - Youth, Drugs, and Gangs **Credits: 2**

## Totals

Required Credits	19
HSP Electives	5
Total Credits	24

## Department of Industrial Design

The Department of Industrial Design focuses on teaching the skills, knowledge, and dispositions required to facilitate product design for manufacturing industries. An industrial designer typically creates new product ideas or re-designs existing products in a collaborative effort with marketing, engineering, and production teams.

The mission of the Industrial Design Department is to provide a high-quality experiential learning environment to produce graduates who are critical thinkers and innovative problem solvers with a refined sense of aesthetics, technology, and culture. The department collaborates with the professional community to augment the development of skills, knowledge, and dispositions that enable graduates to immediately function as entry-level professional industrial designers.

## Academic Programs

- [Industrial Design Major, B.S.](#)
- [Industrial Design Minor](#)

Industrial Designers create and develop product ideas and then communicate those ideas to clients and production entities through technical drawings, concept and final renderings, mock-ups, models and prototypes.

The curriculum at MSU Denver prepares students for professional design practice by teaching graphic and verbal presentation skills, as well as hands on technical skills, to enhance their innate creativity. Collaborative projects with other disciplines and industry partners are a vital part of the curriculum and typically occur in the design studio classes. Students also complete a professional internship as their senior experience to further enhance the real world learning the department strives for. Students are required to pass through a portfolio review process at the end of the sophomore year to allow registration for upper-division studio courses, thus maintaining the quality of the program's graduates. The details of this process are outlined on the department website ([msudenver.edu/ind](http://msudenver.edu/ind)) and available in hard copy at the department office, located in the Aerospace and Engineering Sciences building, suite 200. Graduates with an industrial design major earn a bachelor of science degree. A minor in industrial design is also available.

The program is accredited by the National Association of Schools of Art and Design (NASAD) and works with the Industrial Designers Society of America (IDSA) to enhance the profession. The department has an active student IDSA chapter and faculty involved in the national leadership of IDSA. Through this solid foundation of an accredited curriculum, as well as real world learning opportunities, the program's graduates are well equipped to meet the challenges of the competitive, industrial design industry.

## Student Learning Outcomes for All Industrial Design Majors

To the standard of an entry level professional designer, graduating students should be able to:

- Perform design research that contributes to the definition and solution of design problems.
- Formulate multiple creative design solutions for a given problem, assess those concepts and select the most appropriate final design.
- Demonstrate proficient skills in sketching and rendering with appropriate media, technical drawing, 3-D physical and computer modeling, and prototyping.
- Develop final design solutions to optimize appropriate use of materials, manufacturing processes, user safety and marketability.
- Prepare presentations that demonstrate quality visual organization, verbal skills, writing proficiency and professionalism.
- Produce designs that address human-centered design and demonstrate an understanding of diverse cultural and global contexts.

## Industrial Design Major, B.S.

[Department of Industrial Design](#)  
[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

Industrial Designers create and develop product ideas and then communicate those ideas to clients and production entities through technical drawings, concept and final renderings, mock-ups, models, and prototypes.

The curriculum at MSU Denver prepares students for professional design practice by teaching graphic and verbal presentation skills, as well as hands on technical skills, to enhance their innate creativity. Collaborative projects with other disciplines and industry partners are a vital part of the curriculum and typically occur in the design studio classes. Students also complete a professional internship as their senior experience to further enhance the real world learning the department strives for. Students are required to pass through a portfolio review process at the end of the sophomore year to allow registration for upper-division studio courses, thus maintaining the quality of the program's graduates. The details of this process are outlined on the department website ([msudenver.edu/industrial-design](http://msudenver.edu/industrial-design)) and available in hard copy at the department office, located in the Aerospace and Engineering Sciences building, suite 200. Graduates with an industrial design major earn a bachelor of science degree. A minor in industrial design is also available.

The program is accredited by the National Association of Schools of Art and Design (NASAD) and works with the Industrial Designers Society of America (IDSA) to enhance the profession. The department has an active student IDSA chapter and faculty involved in the national leadership of IDSA. Through this solid foundation of an accredited curriculum, as well as real world learning opportunities, the program's graduates are well equipped to meet the challenges of the competitive, industrial design industry.

## Student Outcomes

To the standard of an entry level professional designer, graduating students should be able to:

- Perform design research that contributes to the definition and solution of design problems.
- Formulate multiple creative design solutions for a given problem, assess those concepts and select the most appropriate final design.
- Demonstrate proficient skills in sketching and rendering with appropriate media, technical drawing, 3-D physical and computer modeling, and prototyping.
- Develop final design solutions to optimize appropriate use of materials, manufacturing processes, user safety and marketability.
- Prepare presentations that demonstrate quality visual organization, verbal skills, writing proficiency and professionalism.
- Produce designs that address human-centered design and demonstrate an understanding of diverse cultural and global contexts.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "D-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** COMM 1010 - Presentational Speaking
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)

- **Recommended:** ARTH 1500 - Art and Visual Literacy, which is required for the major by IND's accreditation body
- **Recommended:** ARTH 1700 - World Art II: Art 1400-1900, which is required for the major by IND's accreditation body
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** PHY 1000 - Introduction to Physics, which is required for the major
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** PSY 1001 - Introductory Psychology, which is required for the major
- Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Core Courses: 83 credits

- ART 1101 - Studio Foundations: 2D **Credits:** 3
- ART 1141 - Studio Foundations: Drawing **Credits:** 3
- ART 1501 - Studio Foundations: 3D **Credits:** 3
- ARTH 1500 - Art and Visual Literacy **Credits:** 3
- ARTH 1700 - World Art II: Art 1400-1900 **Credits:** 3
- IND 1000 - Introduction to Industrial Design **Credits:** 1
- IND 1100 - Materials I: Materials and Fabrication **Credits:** 3
- IND 1300 - Materials II: Design and Application **Credits:** 3
- IND 1450 - Technical Drawing and CAD **Credits:** 3
- IND 1470 - Design Drawing Techniques **Credits:** 3
- IND 2100 - Digital Composition **Credits:** 3
- IND 2450 - Beginning Industrial Design Studio **Credits:** 4
- IND 2830 - Manufacturing Materials and Processes **Credits:** 3
- IND 3050 - Advanced Sketching **Credits:** 3
- IND 3400 - Product Usability and Ergonomics **Credits:** 3
- IND 3450 - Intermediate Industrial Design Studio **Credits:** 4
- IND 3480 - Industrial Design Model Making **Credits:** 3
- IND 3600 - Digital Visualization Techniques in ID **Credits:** 3

- IND 3660 - Computer Aided Modeling **Credits:** 3
- IND 3800 - Design for Marketability and Manufacturing **Credits:** 4
- IND 3950 - History of Industrial Design **Credits:** 3
- IND 4450 - Advanced Industrial Design Studio **Credits:** 4
- IND 4460 - Professional Industrial Design Studio **Credits:** 4
- IND 4540 - Concept and Portfolio Development **Credits:** 4
- PHY 1000 - Introduction to Physics **Credits:** 4
- PSY 1001 - Introductory Psychology **Credits:** 3

### Senior Experience: 3 credits

- IND 4960 - Professional Internship **Credits:** 3

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	83 credits
Senior Experience	3 credits
Unrestricted Electives	0-14 credits
<b>Total for the Industrial Design Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Industrial Design Minor

An Industrial Design Minor is offered by the Department of Industrial Design. There is an increasing trend in business to value individuals who have educational backgrounds in both business and a technical field such as industrial design. Therefore, this minor would be an excellent option for majors in the College of Business or Engineering. The minor may also be useful for students in areas that are linked to design, such as art or technical communication.

### Required Courses

- IND 1000 - Introduction to Industrial Design **Credits:** 1
- IND 1100 - Materials I: Materials and Fabrication **Credits:** 3
- IND 1300 - Materials II: Design and Application **Credits:** 3
- IND 1450 - Technical Drawing and CAD **Credits:** 3
- IND 1470 - Design Drawing Techniques **Credits:** 3
- IND 2455 - Industrial Design Studio for Non-Majors **Credits:** 3
- IND 2830 - Manufacturing Materials and Processes **Credits:** 3

- IND 3950 - History of Industrial Design **Credits:** 3

**Total: 22 credits**

## Department of Nursing

The mission of the Department of Nursing is to provide a high quality, accessible, enriching interprofessional baccalaureate nursing education. Our learning community cultivates graduates who are prepared with the knowledge, skills and competencies to advance professional nursing practice in a diverse, global and technological society. The goal of the nursing program is to prepare a diverse and inclusive generalist professional nurse who provides equitable care for patients in current and future healthcare delivery systems.

### Vision

Diversity, equity, and inclusion are central to who we are. We commit to developing an inclusive nursing program across race, ethnicity, gender identity, age, and neurodiversity. We encourage, support and celebrate the differences of our students, faculty, and our world. The Department of Nursing is committed to academic excellence, collaborative community involvement and promotion of scholarly achievement.

### Academic Programs

The Nursing Department offers a baccalaureate degree program with three tracks leading to a major in nursing, the Accelerated Nursing Option (ANO), Baccalaureate Registered Nurse Completion Option (BRNCO), and Traditional Nursing Option (TNO).

- [Nursing Major - Accelerated Nursing Option, B.S.](#)
- [Nursing Major - Baccalaureate Registered Nurse Completion Option, B.S.](#)
- [Nursing Major - Traditional Nursing Option, B.S.](#)

### Accreditation

The Accelerated Nursing Option, Baccalaureate Registered Nurse Completion Option, and Traditional Nursing Option are accredited by the Accreditation Commission for Education in Nursing (formerly the National League for Nursing Accrediting Commission), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, [acnursing.org](http://acnursing.org).

For more information, call the Department of Nursing at 303-615-1600, go to West Classroom 247, or visit our website, [msudenver.edu/nursing](http://msudenver.edu/nursing).

### Student Learning Objectives

Upon completion of the MSU Denver Nursing Program, graduates should be able to achieve the following student learning outcomes:

#### Communication

Communicate effectively with patients and interprofessional health care teams to enhance patient outcomes

#### Critical Thinking and Clinical Reasoning

Integrate evidence, clinical judgment, interprofessional perspectives and patient preference in providing patient care

#### Patient Safety

Evaluate patient care environments for use of appropriate quality safety indicators

#### Leadership and Management

Apply leadership and management principles to manage resources and achieve optimal patient outcomes

#### Professionalism and Professional Values

Exhibit the knowledge, skills and attributes of a professional nurse

### Accelerated Nursing Option (ANO)

The ANO is a second degree program for students with a previous non-nursing baccalaureate degree.

Students who wish to enter the ANO must apply to the University and to the nursing program. Information on admissions requirements and the application process is available through the Department of Nursing, in West Classroom 247, 303-615-1600, or online at [msudenver.edu/nursing](http://msudenver.edu/nursing).

### Baccalaureate Registered Nurse Completion Option (BRNCO)

The BRNCO is available to RNs with an associate degree or diploma in nursing. Thirty semester hours of lower-division nursing credit will be awarded for prior nursing education to qualifying students.

Students who wish to enter the BRNCO must apply to the University and to the nursing program. Information on admission requirements and the application process is available through the Department of Nursing, in West Classroom 247, 303-615-1600, or online at [msudenver.edu/nursing](http://msudenver.edu/nursing).

### Traditional Nursing Option (TNO)

Students who wish to enter the TNO must apply to the University and to the TNO nursing program. Information on admission requirements and the application process is available through the Department of Nursing, in West Classroom 247, 303-615-1600, or online at [msudenver.edu/nursing](http://msudenver.edu/nursing).

### Nursing Major - Accelerated Nursing Option, B.S.

[Department of Nursing](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Accelerated Nursing Option (ANO) is a second degree program for students with a previous non-nursing, baccalaureate degree. Students who wish to enter the ANO must apply to MSU Denver and to the nursing program.

## Student Outcomes

- Communicate effectively with patients and interprofessional health care teams to enhance patient outcomes
- Integrate evidence, clinical judgment, interprofessional perspectives and patient preference in providing patient care
- Evaluate patient care environments for use of appropriate quality safety indicators
- Apply leadership and management principles to manage resources and achieve optimal patient outcomes
- Exhibit the knowledge, skills and attributes of a professional nurse

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A minimum of 120 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Student must be accepted separately into the Nursing program. This is a very competitive process. Contact the Department of Nursing with questions on this process.

## General Studies Requirements: 33 credits

General Studies requirements for this program are met through the student's previous Bachelor's degree.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Prerequisite Courses: 31-32 credits

All students must complete the following courses.

- BIO 2310 - Human Anatomy and Physiology I **Credits: 4**
- BIO 2320 - Human Anatomy and Physiology II **Credits: 4**
- BIO 2000 - Introductory Microbiology for Nursing **Credits: 4**  
or
- BIO 2400 - General Microbiology **Credits: 5**
- CHE 1100 - Principles of Chemistry **Credits: 4**  
and
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**  
or
- CHE 1800 - General Chemistry I **Credits: 4**  
and
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- ITP 4600 - Clinical Pathophysiology **Credits: 4**
- MTH 1210 - Introduction to Statistics **Credits: 4**
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- PSY 2210 - Psychology of Human Development **Credits: 3**

## Required Courses: 58 credits

- NURA 3020 - Foundations of Professional Nursing Practice **Credits: 6**
- NURA 3150 - Introduction to Gerontology Nursing **Credits: 3**
- NURA 3400 - Evidence Based Practice Through Nursing Research **Credits: 3**
- NURA 3410 - Clinical Pharmacology **Credits: 4**
- NURA 3500 - Mental Health Nursing **Credits: 5**
- NURA 3700 - Nursing Health Assessment **Credits: 3**
- NURA 3810 - Medical Surgical Nursing Care I **Credits: 6**
- NURA 4000 - Community Health Nursing **Credits: 6**
- NURA 4030 - Nursing Care of the Childbearing Family **Credits: 5**
- NURA 4110 - Medical Surgical Nursing Care II **Credits: 6**
- NURA 4150 - Ethics and Professional Nursing Practice **Credits: 3**
- NURA 4200 - Child and Family Health Nursing **Credits: 5**
- NURA 4300 - Leadership and Management in Professional Nursing Practice **Credits: 3**

## Senior Experience: 5 credits

- NURA 4850 - Nursing Senior Experience **Credits: 5**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Prerequisite Courses	31-32 credits
Required Courses	58 credits
Senior Experience	5 credits
Unrestricted Electives	0-2 credits
<b>Total for the Accelerated Nursing Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Nursing Major - Baccalaureate Registered Nurse Completion Option, B.S.

[Department of Nursing](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): Online,  
In-Person, Hybrid

### About the Program

- The Baccalaureate Registered Nurse Completion Option (BRNCO) is available to RNs with an associate degree or diploma in nursing. The program is offered online.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- Twenty semester hours of lower-division credit will be given for prior nursing education, and ten semester hours of upper-division credit will be awarded for having a valid RN license.

### Student Outcomes

- Communicate effectively with patients and interprofessional health care teams to enhance patient outcomes
- Integrate evidence, clinical judgment, interprofessional perspectives and patient preference in providing patient care
- Evaluate patient care environments for use of appropriate quality safety indicators
- Apply leadership and management principles to manage resources and achieve optimal patient outcomes
- Exhibit the knowledge, skills and attributes of a professional nurse

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS NOT required for this program.
- Students must be accepted separately into the Nursing program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for an understanding of this requirement.

- It is recommended that students fulfill this requirement with NUR 3810 - Multicultural Care of Patients and Their Families, which is required by the Nursing, Baccalaureate Registered Nurse Completion Option, major.

## Required Courses: 57 credits

- Nursing Awarded Credit: 30 credit hours (see note in program information)
- NUR 3120 - Introduction to Exemplary Professional Practice **Credits:** 3
- NUR 3160 - Nursing Ethics and Professional Nursing Practice **Credits:** 3
- NUR 3400 - Evidence Based Practice Through Nursing Research **Credits:** 3
- NUR 3770 - Nursing Care Coordination of Acute and Chronic Disease Management **Credits:** 3
- NUR 3810 - Multicultural Care of Patients and Their Families **Credits:** 3
- NUR 4010 - Population Health Nursing **Credits:** 3
- NUR 4020 - Population Health Nursing Practicum **Credits:** 3
- NUR 4040 - Quality Care and Patient Safety Using Nursing Informatics **Credits:** 3
- NUR 4310 - Transformational Nursing Leadership **Credits:** 3

[Department of Nursing](#)

Available Program Format(s): [In-](#)

[College of Health and Applied Sciences](#)

[Person](#)

## About the Program

The TNO is a traditional nursing baccalaureate degree. Students who wish to enter the TNO must apply to MSU Denver and to the TNO nursing program. Students must satisfy the General Studies, Multicultural and Major requirements described below.

## Student Outcomes

- Communicate effectively with patients and interprofessional health care teams to enhance patient outcomes
- Integrate evidence, clinical judgment, interprofessional perspectives and patient preference in providing patient care
- Evaluate patient care environments for use of appropriate quality safety indicators
- Apply leadership and management principles to manage resources and achieve optimal patient outcomes
- Exhibit the knowledge, skills and attributes of a professional nurse

## Required Support Course: 3-4 credits

- Introductory Statistics Course<sup>1</sup> (To be approved by the Nursing Department.)

## Senior Experience: 3 credits

- NUR 4860 - Nursing Capstone: Culmination of the Magnet Journey **Credits:** 3

## Note:

<sup>1</sup> The Introductory Statistics course satisfies the General Studies - Quantitative Literacy requirement.

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Support Course	3-4 credits
Major Requirements	57 credits
Senior Experience Course	3 credits
Unrestricted Electives	20-27 credits
<b>Total for the Nursing Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Nursing Major - Traditional Nursing Option, B.S.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Student must be accepted separately into the Nursing program. This is very competitive process. Contact the Department of Nursing with questions on this process.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1210 - Introduction to Statistics \*
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** BIO 1080 - General Biology I/ BIO 1090 - General Biology Laboratory I, prerequisites for BIO 2310 and BIO 2400 or BIO 2000\* and CHE 1100/ CHE 1150, prerequisite for BIO 2400 or BIO 2000\* or CHE 1800/CHE 1801, prerequisite for BIO 2400 or BIO 2000\*
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** PSY 1001 - Introductory Psychology, prerequisite for PSY 2210
- Global Diversity (0 or 3 credits\*\*)

\* The listed courses are prerequisites for required prerequisite courses for the major and can also fulfill general studies requirements

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Prerequisite Courses: 31-32 credits

All students must complete the following courses. These courses can also count towards the General Studies Requirements.

- BIO 2310 - Human Anatomy and Physiology I **Credits:** 4
- BIO 2320 - Human Anatomy and Physiology II **Credits:** 4
- BIO 2000 - Introductory Microbiology for Nursing **Credits:** 4
- OR
- BIO 2400 - General Microbiology **Credits:** 5
- CHE 1100 - Principles of Chemistry **Credits:** 4
- AND
- CHE 1150 - Principles of Chemistry Laboratory **Credits:** 1
- OR
- CHE 1800 - General Chemistry I **Credits:** 4
- AND
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- ITP 4600 - Clinical Pathophysiology **Credits:** 4

- MTH 1210 - Introduction to Statistics **Credits:** 4
- NUT 2040 - Introduction to Nutrition **Credits:** 3
- PSY 2210 - Psychology of Human Development **Credits:** 3

## Required Courses: 58 credits

- NURS 3020 - Foundations of Professional Nursing Practice **Credits:** 6
- NURS 3150 - Introduction to Gerontology Nursing **Credits:** 3
- NURS 3400 - Evidence Based Practice Through Nursing Research **Credits:** 3
- NURS 3410 - Clinical Pharmacology **Credits:** 4
- NURS 3500 - Mental Health Nursing **Credits:** 5
- NURS 3700 - Nursing Health Assessment **Credits:** 3
- NURS 3810 - Medical Surgical Nursing Care I **Credits:** 6
- NURS 4000 - Community Health Nursing **Credits:** 6
- NURS 4030 - Nursing Care of the Childbearing Family **Credits:** 5
- NURS 4110 - Medical Surgical Nursing Care II **Credits:** 6
- NURS 4150 - Ethics and Professional Nursing Practice **Credits:** 3
- NURS 4200 - Child and Family Health Nursing **Credits:** 5
- NURS 4300 - Leadership and Management in Professional Nursing Practice **Credits:** 3

## Senior Experience: 5 credits

- NURS 4850 - Nursing Senior Experience **Credits:** 5

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Prerequisite Courses	31-32 credits
Required Courses	58 credits
Senior Experience	5 credits
Unrestricted Electives	0-2 credits
<b>Total for the Traditional Nursing Major, B.S.</b>	<b>Minimum of 120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Department of Nutrition

The mission of the Department of Nutrition is to prepare diverse students from the Denver metropolitan area for successful careers in food, nutrition and dietetics by providing quality education that is culturally sensitive and instills a desire for life-long learning.

## Academic Programs

- [Nutrition and Dietetics Major, B.S.](#)
- [Nutrition Science Major, B.S.](#)
- [Nutrition Minor](#)

## Requirements

Students who attain a Bachelor of Science degree with a major in Human Nutrition - Dietetics will be prepared for traditional, non-traditional, and entrepreneurial positions in health care that utilize knowledge of food, nutrition and dietetics. Professionals trained in nutrition have diverse career options due to the growing emphasis on nutrition, health and wellness.

Students must earn a grade of "C-" or better in all courses required for the major in order to progress through the program. Courses with grades less than "C-" will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. All general requirements of the University for a Bachelor of Science degree must be met prior to graduation.

In addition, students must maintain a minimum cumulative GPA of 2.0 and major GPA of 3.0. If either GPA falls below the minimum, one of the following will occur:

- The student will be placed on academic probation and have one semester to bring the GPA(s) up to acceptable levels, while remaining in the course sequence.
- If the student fails to bring the GPA(s) up to acceptable levels after one semester, the student will be suspended from the major until the minimum GPA(s) is/are achieved. Resumption in the Human Nutrition - Dietetics major will commence in the appropriate sequential semester.
- If, after two semesters, the student does not bring the GPA(s) to acceptable levels, the student will be dismissed from the Human Nutrition - Dietetics major and advised to decide if they want to improve their GPA and re-apply for the Human Nutrition - Dietetics major or choose another major with different GPA expectations.
- If the GPA(s) is/are raised to the minimum, the dismissal may be appealed.

Third- and fourth-year students will be notified of their status by June 1st of each year.

## Accreditation

The Human Nutrition - Dietetics Major includes a Didactic Program in Dietetics (DPD) accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040 ext. 5400, [acend@eatright.org](mailto:acend@eatright.org). Students must apply to the DPD prior to enrolling in NUT 3150 - Advanced Nutrition - Macronutrients. Once accepted into the DPD, students are considered enrolled in an ACEND accredited program. Completion of a DPD program is one step required in becoming a registered dietitian (RD). To become a registered dietitian, students must also have a bachelor's degree, apply for and complete an accredited internship program and pass a

national examination administered by the Commission on Dietetic Registration. Accredited internships are completed after graduation and obtained through a competitive, national selection process in which approximately 50% of students who apply are actually placed. Colorado-based internships are limited and students should be prepared to complete their internship out of state.

## Nutrition and Dietetics Major, B.S.

[Department of Nutrition](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Metropolitan State University of Denver (MSU Denver) offers a Bachelor of Science degree with a major in Nutrition and Dietetics (NUD). The major includes a didactic program in dietetics (DPD) that has been granted Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040 ext. 5400, [acend@eatright.org](mailto:acend@eatright.org).

Students may choose to be enrolled in both the Nutrition and Dietetics major **and** the DPD **or** they may choose to be only enrolled in the Nutrition and Dietetics major. At MSU Denver, the DPD is not designed to be a stand-alone program without being enrolled in the NUD major. While it is possible for a student to complete the DPD without receiving a second bachelor's degree, the reality is that most students with previous bachelor's degrees will need to complete sufficient credit hours that they would be eligible for a second bachelor's degree.

The mission of the MSU Denver Nutrition and Dietetics DPD is to prepare diverse students from the Denver Metropolitan area for successful careers in food, nutrition and dietetics by providing quality education in the core knowledge requirements for the registered dietitian that is culturally sensitive and instills a desire for life-long learning.

## Student Outcomes

- Integrate scientific information and translate research into practice.
- Demonstrate attitudes, values and behaviors aligned with nutrition and dietetics practice.
- Develop and deliver information, products and services to individuals, groups and populations.
- Strategically apply principles of management and systems in the provision of services to individuals and organizations.
- Demonstrate skills and knowledge relevant to leadership potential and professional growth in the field of nutrition and dietetics.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS NOT required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** It is recommended that students fulfill this requirement with MTH 1210 - Introduction to Statistics, which is required by the Nutrition and Dietetics major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** It is recommended that students fulfill this requirement by taking BIO 1080 - General Biology I, BIO 1090 - General Biology Laboratory I, CHE 1100 - Principles of Chemistry, and/or CHE 1150 - Principles of Chemistry Laboratory, all of which are required by the Nutrition and Dietetics major.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** It is recommended that students take PSY 1001 - Introductory Psychology, which is required by the Nutrition and Dietetics major.
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- **Recommended:** It is recommended that students fulfill this requirement by taking NUT 3300 - Cultural Aspects of Nutrition, which is required by the Nutrition and Dietetics major.

## Required Courses: 73 credits

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 2310 - Human Anatomy and Physiology I **Credits: 4**
- BIO 2320 - Human Anatomy and Physiology II **Credits: 4**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- CHE 2100 - Introduction to Organic and Biological Chemistry **Credits: 4**
- CHE 2150 - Introduction to Organic and Biological Chemistry Laboratory **Credits: 1**
- HCM 3150 - Health Care Organization and Management **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**
- NUT 1800 - Careers in Nutrition and Dietetics **Credits: 1**
- NUT 2040 - Introduction to Nutrition **Credits: 3**
- NUT 3150 - Advanced Nutrition - Macronutrients **Credits: 3**
- NUT 3160 - Advanced Nutrition - Micronutrients **Credits: 3**
- NUT 3200 - Nutrition and Sports Performance **Credits: 3**  
OR
- NUT 3400 - Nutrition and Weight Management **Credits: 3**
- NUT 3300 - Cultural Aspects of Nutrition **Credits: 3**
- NUT 3500 - Food Safety **Credits: 3**
- NUT 3700 - Nutrition Education and Counseling **Credits: 3**
- NUT 4200 - Lifecycle Nutrition for Majors **Credits: 3**
- NUT 4210 - Community Nutrition **Credits: 3**
- NUT 4300 - Management in Dietetics **Credits: 3**
- NUT 4350 - Leadership Principles in Nutrition **Credits: 3**
- NUT 4800 - Medical Nutrition Therapy **Credits: 4**
- RST 1200 - Basic Cooking Skills **Credits: 3**
- PSY 1001 - Introductory Psychology **Credits: 3**

## Senior Experience: 3 credits

- NUT 4720 - Nutrition Capstone **Credits: 3**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	73 credits
Senior Experience	3 credits
Unrestricted Electives	8-23 credits
<b>Total for the Nutrition and Dietetics Major, B.S.</b>	<b>120 Credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Nutrition Minor

The minor in nutrition is designed to complement a major chosen by a student and/or for individuals who wish to establish a basic understanding of nutrition. A minimum of 18 semester hours is required to complete the minor. A letter grade of at least "C-" must be attained in each of the courses in the Nutrition Minor. Students should note that programs differ in the minimum grade required.

The Nutrition Minor will not meet educational requirements for qualification as a Registered Dietitian (RD). A major in nutrition from an accredited institution, an approved internship, and passing a national exam are all requirements to obtain the RD credential.

## Required Courses:

- NUT 2040 - Introduction to Nutrition **Credits: 3**
- NUT 3040 - Nutrition Concepts and Controversies **Credits: 3**
- NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3**

Elective Courses: Select 9 credits from the following:

- HIS 3450 - Food in U.S. History **Credits: 3 \*\***
- HIS 3715 - Food in World History **Credits: 3**
- NUT 3150 - Advanced Nutrition - Macronutrients **Credits: 3**
- NUT 3160 - Advanced Nutrition - Micronutrients **Credits: 3**
- NUT 3200 - Nutrition and Sports Performance **Credits: 3**
- NUT 3300 - Cultural Aspects of Nutrition **Credits: 3 \*\***
- NUT 3310 - Nutrition and Food of Mexico **Credits: 3**
- NUT 3350 - Global Nutrition and Health **Credits: 3**
- NUT 3400 - Nutrition and Weight Management **Credits: 3**
- NUT 3500 - Food Safety **Credits: 3**
- RST 3530 - Healthy International Cooking **Credits: 3**

Total for minor: 18

## Note

*\*\* This course satisfies the Multicultural requirement.*

## Nutrition Science Major, B.S.

[Department of Nutrition](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Students who attain a Bachelor of Science degree with a major in Nutrition Science will be prepared for graduate level nutrition/food science study or professional health programs (e.g. physician assistant, medical doctor, physical therapy).

Students must earn a grade of "C-" or better in all courses required for the major in order to progress through the program. Courses with grades less than "C-" will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. All general requirements of the University for a Bachelor of Science degree must be met prior to graduation. In addition, students must maintain a minimum cumulative GPA of 2.0 or higher in the HNS major.

## Student Outcomes

1. Demonstrate critical thinking skills and analytical abilities to identify and solve problems in the nutrition sciences.
2. Critique and effectively communicate nutrition information.
3. Demonstrate an understanding of the functions and interrelationships of nutrients and food in human health, disease prevention, and disease states.
4. Integrate the biological, behavioral, socioeconomic and environmental factors related to food and nutrient intakes and needs across the lifespan.
5. Demonstrate effective and professional technical and scientific communication skills using current technologies.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** It is recommended that students fulfill this requirement with MTH 1210 - Introduction to Statistics, which is required by the Nutrition Science major.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** It is recommended that students fulfill this requirement by taking BIO 1080 - General Biology I, BIO 1090 - General Biology Laboratory I; CHE 1800 - General Chemistry I and/or CHE 1801 - General Chemistry I Laboratory, all of which are required by the Nutrition Science major.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** It is recommended that students take PSY 1001 - Introductory Psychology, which is required by the Nutrition Science major.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- **Recommended:** It is recommended that students fulfill this requirement by taking NUT 3300 - Cultural Aspects of Nutrition, which is an elective course for the Nutrition Science major and a course that meets the Multicultural Requirement.

## Required Courses: 86 credits

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1091 - General Biology Laboratory II **Credits:** 1
- BIO 2310 - Human Anatomy and Physiology I **Credits:** 4
- BIO 2320 - Human Anatomy and Physiology II **Credits:** 4
- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1
- CHE 3100 - Organic Chemistry I **Credits:** 4
- CHE 3120 - Organic Chemistry Laboratory 1 **Credits:** 1
- CHE 3110 - Organic Chemistry II **Credits:** 3
- CHE 3130 - Organic Chemistry Laboratory II **Credits:** 2
- CHE 4310 - Biochemistry I **Credits:** 4
- MTH 1110 - College Algebra for Calculus **Credits:** 4
- MTH 1120 - College Trigonometry **Credits:** 3
- MTH 1210 - Introduction to Statistics **Credits:** 4
- NUT 2040 - Introduction to Nutrition **Credits:** 3
- NUT 3150 - Advanced Nutrition - Macronutrients **Credits:** 3
- NUT 3160 - Advanced Nutrition - Micronutrients **Credits:** 3
- NUT 4200 - Lifecycle Nutrition for Majors **Credits:** 3
- NUT 4800 - Medical Nutrition Therapy **Credits:** 4
- PHY 2010 - College Physics I **Credits:** 4
- PHY 2030 - College Physics I Laboratory **Credits:** 1
- PHY 2020 - College Physics II **Credits:** 4
- PHY 2040 - College Physics II Laboratory **Credits:** 1
- PSY 1001 - Introductory Psychology **Credits:** 3

### Select Two of the Following:

- NUT 3200 - Nutrition and Sports Performance **Credits:** 3
- NUT 3300 - Cultural Aspects of Nutrition **Credits:** 3
- NUT 3350 - Global Nutrition and Health **Credits:** 3
- NUT 3400 - Nutrition and Weight Management **Credits:** 3
- NUT 3500 - Food Safety **Credits:** 3
- NUT 3700 - Nutrition Education and Counseling **Credits:** 3

## Senior Experience: 3 credits

Select One of the Following:

- NUT 4720 - Nutrition Capstone **Credits:** 3
- CHE 4960 - Senior Experience in Biochemistry **Credits:** 3
- HON 4950 - Senior Honors Thesis **Credits:** 3

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits

Major Requirement	86 credits
Senior Experience	3 credits
Unrestricted Electives	0-10 credits
<b>Total for the Nutrition Science Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## One World One Water Center

### Mission Statement

The mission of the One World One Water Center for Urban Water Education and Stewardship at Metropolitan State University of Denver (MSU Denver) is to prepare an educated, empowered, solution-oriented Colorado citizenry to protect and preserve our precious water resources. MSU Denver fulfills the mission in three ways:

- Offer an interdisciplinary, hands-on Water Studies minor for students from diverse backgrounds and in any major;
- Provide co-curricular enrichment activities to the entire student population of the Auraria Campus, which includes MSU Denver, the University of Colorado - Denver, and the Community College of Denver;
- Enhance water stewardship on and beyond campus for the effective use of water resources.

For more information on the OWOW Center, visit [msudenver.edu/owow](http://msudenver.edu/owow).

### Water Studies Certificate

The Water Studies Certificate is a 15-credit, interdisciplinary program of study that provides a holistic, highly interactive experience. The curriculum is designed to facilitate water studies education to students from a wide range of disciplines by introducing them to the importance of water resources and stewardship via coursework and co-curricular programs.

### Admission and Graduation Requirements

This certificate program is open to all undergraduate, degree-seeking students and also to non-degree-seeking students. At least 9 credits of water studies courses in the certificate must be completed in residency at MSU Denver, as well as 6 credit hours of electives. A grade of "C" or better must be earned in each course required for the certificate. Students should note that programs differ in the minimum grade required.

### Advising and Contact Information

Individuals interested in this certificate program should contact the One World One Water Center at 303-615-1199 to schedule an

appointment for an advising session. For more information on the OWOW Center, visit [msudenver.edu/owow](http://msudenver.edu/owow).

### Required Courses

- HIS 3426 - Colorado Water and the American West **Credits: 3**  
OR
- JMP 3570 - Covering the Environment **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3**  
OR
- ENV 3400 - Water Resources **Credits: 3**
- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3** (Crosslisted: ENV 3250)  
OR
- ENV 4410 - Water Law **Credits: 3**  
OR
- ENV 4200 - Environmental Policy and Planning **Credits: 3**

**Subtotal: 9 credits**

### Elective Courses

Students must select 6 semester hours of elective courses in consultation with staff of the One World One Water Center or with an advisor in their major department.

**Subtotal: 6 credits**

**Total for Certificate: 15 credits**

### Water Studies Minor

The Water Studies Minor is an interdisciplinary field of study that provides a holistic, highly interactive program. The curriculum is designed to facilitate water studies education to students from a wide range of co-curricular programs. At least 9 credits of water studies courses in the minor must be completed in residency at MSU Denver, as well as 6 credit hours of electives and 3 credit hours of an approved internship. A grade of "C" or better must be earned in each course required for the minor. Students should note that programs differ in the minimum grade required.

### Advising and Contact Information

Individuals interested in this certificate program should contact the One World One Water Center at 303-615-1199 to schedule an appointment for an advising session. For more information on the OWOW Center, visit [msudenver.edu/owow](http://msudenver.edu/owow).

### Required Courses

- GEG 1910 - Global Water Concerns **Credits: 3**  
OR
- ENV 3400 - Water Resources **Credits: 3**
- MGT 3250 - Colorado Water Law and Water Rights Administration **Credits: 3** (Crosslisted: ENV 3250)

OR

- ENV 4410 - Water Law **Credits: 3**

OR

- ENV 4200 - Environmental Policy and Planning **Credits: 3**

- JMP 3570 - Covering the Environment **Credits: 3**

OR

- HIS 3426 - Colorado Water and the American West **Credits: 3**

- Approved Internship\*

**Subtotal: 12 credits**

## Elective Courses

- A minimum of 6 additional semester hours of approved electives is required.\*

**Subtotal: 6 credits**

**Total for the Water Studies Minor: 18 credits**

*\*Internship course and elective courses will be selected in consultation with an advisor in the One World One Water Center.*

## Department of Social Work

### Mission Statement

Our mission is to provide an inclusive, inspiring environment for undergraduate, graduate, and community education in social work, that is value driven, research informed, culturally responsive, academically rigorous, and which links theory with practice.

### Academic Programs

- [Social Work Major, B.S.](#)
- [Social Work Minor](#)
- MSW (see graduate catalog for details)

### Social Work Major, B.S.

[Department of Social Work](#)

[College of Health and Applied Sciences](#)

Available Program Format(s): [Online](#),  
[In-Person](#), [Hybrid](#)

### About the Program

Social Work is an exciting academic major, preparing students for professional entry-level work in the social and human services. Students in the major engage in the exploration of ways to ameliorate personal, interpersonal, and societal problems and learn skills and techniques in order to create change and make a difference in people's lives. Social Work is a valuable degree as many employers

recognize it as preparing graduates to utilize a variety of tools to work with diverse populations on multiple issues and goals.

According to the Bureau of Labor Statistics, as of 2016, in the United States there were 680,000 employed social workers and there are projected to be 790,000 (average 8% growth) by 2026. The largest number specialize in helping children and families or worked in schools (47%), the second largest work in healthcare settings (26%), the third largest specialize in mental health and substance abuse treatment (18%) and all other categories account for approximately nine percent of this total (Bureau of Labor Statistics Employment Projections Program, 2017). Bachelor-level social workers are employed in a variety of settings, including schools, prisons, non-profit and for-profit private agencies, and governmental agencies. They work with individuals, families, groups, and communities as intake staff, resource and referral specialists, case workers, case managers, program coordinators, project directors, community organizers, and more.

### Accreditation

The Bachelor of Science in Social Work (BSSW) Program has been continuously accredited since 1997 by the Council on Social Work Education, the sole accrediting body for social work programs in the U.S. Accreditation assures that professional standards are met in curriculum content and delivery. Accredited programs periodically undergo rigorous review by CSWE in order to ensure compliance with educational standards.

### Student Outcomes

The goal of the BSSW Program is to prepare students for generalist social work practice in professional settings, as is congruent with our accreditation standards. More specifically, students who graduate from our program will be able to:

- Demonstrate ethical and professional behavior
- Engage diversity and difference in practice
- Advance human rights and social, economic, and environmental justice
- Engage in practice-informed research and research-informed practice
- Engage in policy practice
- Engage with individuals, families, groups, organizations and communities
- Assess individuals, families, groups, organizations and communities
- Intervene with individuals, families, groups, organizations and communities
- Evaluate practice with individuals, families, groups, organizations and communities

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)

- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each SWK course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- All ancillary courses must be completed with a grade of "D-" or better.
- A minor is not required for this program.
- The major requires 6 credits of Social Work prerequisite courses to set the foundation for coursework in the major. Students must have all prerequisite courses completed prior to entry into the major.
- Upon approaching completion of the prerequisites, students may apply to the program (a formal application is required for acceptance into the major, see below).

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- **Recommended:** ENG 1010 - Composing Arguments and ENG 1020 - Research and Argument Writing are recommended for Social Work majors.
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- **Recommended:** BIO 1000 - Human Biology for Non-Majors, BIO 1030 - General Biology for Non-Majors, or BIO 1080 - General Biology I and BIO 1090 - General Biology Laboratory I are recommended for Social Work Majors.
- Social and Behavioral Sciences (6 credits)
- **Recommended:** PSC 1010 - American National Government and PSY 1001 - Introductory Psychology are recommended for Social Work majors. One of the following courses is also recommended: SOC 1010 - People, Power, and Progress, ANT 1310 - Introduction to Cultural Anthropology, or ANT 2330 - Cross-Cultural Communication.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
- For Social Work major students, SWK 3120 - Privilege, Oppression, and Power will meet this requirement.

## Required Ancillary Prerequisite Courses: 12-13 credits

The following courses must be completed before students may apply to the BSSW Program. All ancillary courses must be completed with a grade of "D-" or better.

- BIO 1000 - Human Biology for Non-Majors **Credits: 3**  
or
- BIO 1030 - General Biology for Non-Majors **Credits: 4**  
or
- BIO 1080 - General Biology I **Credits: 3**  
and
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- PSC 1010 - American National Government **Credits: 3**
- PSY 1001 - Introductory Psychology **Credits: 3**
- SOC 1010 - People, Power, and Progress **Credits: 3**  
or
- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**  
or
- ANT 2330 - Cross-Cultural Communication **Credits: 3**

## Social Work Prerequisites: 6 credits

The following social work courses must be completed before students may apply to the BSSW Program. All social work courses must be completed with a grade of "C-" or better.

- SWK 1010 - Introduction to Social Work **Credits: 3**
- SWK 1600 - Community Engagement and Civic Responsibility **Credits: 3**

## Required Social Work Courses: 36 credits

Once a student has completed all General Studies requirements, ancillary course requirements, and social work prerequisite courses, they are eligible to apply to the BSSW program. Once admitted to the BSSW Program, students are eligible to enroll in the following required courses. Because the BSSW degree is professionally-oriented, students must pass through the curriculum in a sequential manner with lower-level courses preparing them for the work and expectations of upper-level courses. Students must adhere to the required coursework and pass all courses with a C- or better.

- SWK 3050 - Human Behavior in the Social Environment I **Credits: 3**
- SWK 3060 - Human Behavior in the Social Environment II **Credits: 3**
- SWK 3090 - Philosophy of Social Work **Credits: 3**
- SWK 3120 - Privilege, Oppression, and Power **Credits: 3**
- SWK 3350 - Social Work Experience: Practice and Communication **Credits: 3**
- SWK 3780 - Social Policy and Social Justice **Credits: 3**
- SWK 3410 - Generalist Practice I **Credits: 3**
- SWK 3420 - Generalist Practice II **Credits: 3**
- SWK 4400 - Generalist Practice III **Credits: 3**
- SWK 4410 - Generalist Practice IV **Credits: 3**
- SWK 4300 - Research Methods in Social Work **Credits: 3**
- SWK 4310 - Research Statistics and Applications **Credits: 3**

## Upper Division Social Work Electives: 12 credits

BSSW students are required to take 4 upper division elective courses (12 credits). An up-to-date list of approved upper division Social Work electives can be found on our departmental website, as well as the term they are guaranteed to be offered.

## Senior Experience: 6 credits

- SWK 4500 - Professional Field Experience I **Credits: 3**
- SWK 4510 - Professional Field Experience II **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Prerequisites	12-13 credits
Social Work Prerequisites	6 credits
Upper Division Social Work Electives	12 credits
Required Social Work Courses	36 credits
Senior Experience	6 credits
Unrestricted Electives	11-25 credits
<b>Total for the Social Work Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Additional Information

### Application to the Major

Students who wish to pursue the BSSW should declare Social Work as their major with the Office of Admissions when they apply to

MSU Denver. Admission to the BSSW Program is not guaranteed. To be considered for the major, students must meet the admission criteria and submit a BSSW Program application to the Department of Social Work in order to determine acceptance into the major. When applying to the BSSW Program, students should have the prerequisite liberal arts perspective courses and the introductory social work courses completed or they should be enrolled with the intent to complete them before the program begins. Students must have earned a cumulative undergraduate GPA of 2.0 in order to be admitted without conditions into the BSSW Program. Students with a cumulative GPA of below a 2.0 should meet with an academic advisor in the Office of Social Work Student Services prior to applying to the BSSW Program and may be conditionally placed on departmental academic probation at the time of acceptance. Students are accepted into the BSSW Program once a year. Applications are accepted during the Spring semester for a proceeding Fall start. Students will be notified of their acceptance status by email. For complete application instructions and admission process information, please visit the Department of Social Work website at [www.msudenver.edu/socialwork](http://www.msudenver.edu/socialwork).

### Advising Appointments

The Department of Social Work's Office of Social Work Student Services provides academic advising for social work majors from application to the program through graduation. Students who are accepted to the major will be assigned a faculty advisor for professional related advising and general academic support. For more information and to schedule an advising appointment, visit [www.msudenver.edu/socialwork](http://www.msudenver.edu/socialwork).

### Transfer Students

Students transferring to Metropolitan State University of Denver must first apply as a transfer student through the Office of Admissions and should declare Social Work as their major at that time. Once they have been accepted into MSU Denver and have had their transcripts evaluated, they will be advised regarding remaining General Studies and other prerequisite requirements that must be fulfilled. Transfer students are also expected to meet the BSSW Program's prerequisite requirements.

### Social Work Course Transfer Policy

Incoming students who have taken Social Work courses at another college or university may have the coursework reviewed to apply for Social Work credit for the courses. To be considered, coursework must have been completed at a college or university accredited by a regional accreditation body (see MSU Denver website for additional information). In addition, certain coursework must have been completed within a program accredited by the Council on Social Work Education to be considered for transfer into the BSSW Program. In order to transfer Social Work credits, students must provide documentation that includes the course description, course syllabus, and course requirements. Approval of course transfers is at the discretion of the program. To engage in this process, meet with a member of the Office of Social Work Student Services. For a full description of the transfer requirements and of the process for

consideration of credit, please see the Department of Social Work website.

## **Fully Online Course Delivery Option**

The Department of Social Work offers courses on-campus, online and a hybrid form (requiring some online and some on-campus time). Students who are interested in taking their courses completely online must indicate that intent on the BSSW Program application and be accepted into that option. Once accepted, the Office of Social Work Student Services will work closely with those students to ensure enrollment in online social work courses. Online courses may include both synchronous and asynchronous activities. Asynchronous activities are activities, readings, assignments, videos, and other tasks required in your course that you do on your own time while meeting the expected due dates and times. Synchronous activities are activities that occur with others at a scheduled time but that are accessible to you online. This means that you will use meeting software to communicate and meet with your class and instructor at a specified time. Synchronous course requirements will be specified in the University Course Schedule.

## **Sequential Coursework Policy**

Prior to entering the program, students are required to take specified prerequisites in the liberal arts and social work. Upon entering the program, students are required to take courses in a specified order. This course sequencing is mandatory and ensures necessary preparation for students to successfully complete courses throughout the program. Please note: Students who fail to follow the required course sequencing may delay their graduation by a year or more and may be put on Departmental Academic Probation. In addition, students who take courses out of order may not receive credit for those courses and may be required to retake those courses.

## **A Grade of "D" or "F" in a Social Work Course**

Students must receive a "C-" or better in each individual social work course. Students earning a grade of less than "C-" must meet with their social work advisor before the start of the next semester and may be on an altered academic plan of completion. Additionally, students whose GPAs fall below the minimum GPA requirements of 2.0 cumulative and 2.67 Social Work will be placed on departmental academic probation. Please see the Department of Social Work website for further information.

## **Minimum GPA**

A student must maintain a 2.0 overall cumulative MSU Denver GPA and a 2.67 Social Work course GPA to remain in good standing in the Social Work Program. Students failing to meet the minimum GPA requirements will be placed on departmental academic probation until they achieve the grades necessary to raise their GPA. Please see the Department of Social Work website for further information.

## **Program Orientation**

All students accepted into the BSSW Program are required to successfully complete a Program Orientation within a specified timeframe announced at the time of admission. Students who do not successfully complete the Program Orientation will be dropped from their core Social Work courses and must wait until the following academic year to take the orientation and to begin the BSSW program.

## **Scholarships and Stipends**

The Department of Social Work has several opportunities for scholarships and stipends based on student interest. Please see the Departmental website for more information about these opportunities.

## **Professional Field Experience**

Social Work Field Experience takes place during the fall and spring semesters of the student's senior year. In order to integrate classroom knowledge with practice and to experience the role and requirements of a professional social worker, the student is placed in an approved social work agency for approximately 16 hours per week for 240 hours a semester (a total of 480 hours over both semesters). The student remains in the same agency for both semesters, progressing from orientation to beginning professional competence. Additional information about field experience, including eligibility, application, and securing a field site, can be found on the Department of Social Work website.

## **Advanced Standing in Graduate School**

Students who graduate with a bachelor's degree from an accredited social work program may apply for advanced standing (where available) in Masters-level social work graduate programs. Depending upon the graduate program, advanced standing students are able to complete their MSW in an accelerated course of study. Students are urged to contact graduate programs for their policies on advanced standing.

## **Credit for Life Experience**

No credit is given for learning gained through life experience and no life experience credit may be used toward the BSSW Major.

## **Social Work Minor**

The Social Work Minor is designed for students interested in augmenting their major with social work courses. Graduates with a Minor in Social Work are not considered social workers. However, employers may value the minor, particularly if the student is pursuing a career in a helping field. Students must earn a "C-" or above to earn credit for the social work courses in the minor. Students must formally apply to the minor. The application form, criteria, and instructions can be found on the Department of Social Work website.

## **Required Courses**

- SWK 1010 - Introduction to Social Work **Credits:** 3
- SWK 1600 - Community Engagement and Civic Responsibility **Credits:** 3
- SWK 3120 - Privilege, Oppression, and Power **Credits:** 3
- SWK 3410 - Generalist Practice I **Credits:** 3  
SWK Upper Division Elective (2 courses) **Credits:** 6

**Total for Social Work Minor: 18 credits**

## Additional Information

### Child Welfare Stipend

The Colorado Department of Human Services has a program for child welfare stipends. Current Title IV-E funded public child welfare case aid or case worker employees who are enrolled in the Social Work Minor may be eligible for the stipend program. Students in the stipend program are restricted as to the electives they may take for credit in the program. Acceptance into the stipend program is not guaranteed. For additional information, application, and requirements for the stipend program, please visit the Department of Social Work website.

### Transferring to the Social Work Major from the Social Work Minor

Current Social Work Minor students may apply as a major to the BSSW Program. Students must be formally accepted into the program in order to be considered a BSSW Major. Upon acceptance into the major, students are to meet with the BSSW Program Advisor to receive a course of study plan. The application and admission requirements for the BSSW Major are defined above.

For further information, please visit the Department of Social Work at [www.msudenver.edu/socialwork](http://www.msudenver.edu/socialwork).

## Department of Speech, Language, Hearing Sciences

### Speech, Language, and Hearing Sciences (SLHS)

- [Speech, Language, Hearing Sciences Major, B.A.](#)
- [Speech, Language, Hearing Sciences Minor](#)
- [Speech, Language, Hearing Sciences - Leveling Certificate](#)
- [Speech-Language Pathology Assistant Certificate](#)

A major in Speech, Language, Hearing Sciences (SLHS) provides a sound background for students pursuing careers in education, health care, and vocational rehabilitation. Graduates in Speech, Language, Hearing Sciences who complete the SLHS major will have the prerequisite coursework to pursue a graduate degree in speech-language pathology or audiology, which opens careers in schools, community clinics, hospitals, rehabilitation centers, and private practice. Additionally, the SLHS program offers two certificates. The Speech-Language Pathology Assistant Certificate prepares students to become Speech-Language Pathology Assistants (SLPAs) and the

Leveling Certificate allows students with a bachelor's degree in another field to complete some prerequisite coursework to apply to graduate school in speech-language pathology or audiology.

### Speech, Language, Hearing Sciences - Leveling Certificate

This certificate allows students with a bachelor's degree in a field other than speech, language, hearing sciences (SLHS) to demonstrate completion of a specific sequence of foundational courses required by most graduate programs in speech-language pathology and audiology.

MSU Denver prerequisites to SLHS 2100, SLHS 2530, and SLHS 3530 will be waived for certificate-seeking students. However, students who lack background in algebra, general biology, and/or English grammar should consider taking recommended prerequisites.

SLHS leveling courses must be taken in a prescribed sequence. Students should contact an SLHS program advisor to obtain a transcript evaluation and more information about registration procedures. Visit the department webpage to schedule an appointment with an SLHS advisor:

<https://www.msudenver.edu/speech-language-hearing-sciences/>

Students must earn a C or better in all required courses to apply towards the SLHS Leveling Certificate.

#### Required Courses

- SLHS 2100 - Language Acquisition and Development **Credits:** 3
- SLHS 2530 - Speech Science **Credits:** 3
- SLHS 3200 - Clinical Phonetics **Credits:** 3
- SLHS 3300 - Principles of Assessment and Intervention **Credits:** 3
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits:** 3
- SLHS 3600 - Diagnostic Audiology **Credits:** 3
- SLHS 4100 - Language Disorders and Differences **Credits:** 3
- SLHS 4200 - Speech Disorders and Differences **Credits:** 3
- SLHS 4530 - Neural Bases of Communication and Its Disorders **Credits:** 3
- SLHS 4610 - Aural Rehabilitation **Credits:** 3

Total Credits: 30

#### ASHA Requirements

Students who plan to pursue graduate school in speech-language pathology or audiology should plan on taking additional courses during their undergraduate program. Students must have standalone coursework in a) statistics; b) physics or chemistry; c) biological sciences and d) social/behavioral sciences to meet clinical certification requirements of the American Speech-Language-Hearing Association.

# Speech, Language, Hearing Sciences Major, B.A.

[Department of Speech, Language,  
Hearing Sciences](#)

[College of Health and Applied  
Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

This major provides a sound background for students pursuing careers in education, health care, and vocational rehabilitation. Graduates with the SLHS major will have the prerequisite coursework to pursue a graduate degree in speech-language pathology or audiology, which opens careers in schools, community clinics, hospitals, rehabilitation centers, and private practice. This major is also designed for students planning to work in the schools as a speech-language pathology assistant. For more information on the undergraduate program or careers within SLHS visit: <https://www.msudenver.edu/speech-language-hearing-sciences/>.

## Student Outcomes

The B.A. in SLHS is a comprehensive degree program in which knowledge of communication and its disorders is converged with everyday applications. Specific programmatic learning outcomes are:

- Explain the biological bases underlying typical and disordered communication.
- Describe the nature and variety of spoken-language development in typically-developing children.
- Analyze case studies to determine the etiologies of communication disorders and/or choose appropriate assessment tools and intervention strategies.
- Utilize an evidence-based framework/professional research to answer clinical questions.
- Demonstrate professional behaviors and clinical skills appropriate for a beginning practicum.
- Demonstrate college-level written language skills.
- Demonstrate college-level oral presentation skills.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C better is required for each course in this program to count toward the bachelor's degree. Students

should note that programs differ in the minimum grade required.

- A minor is required for this program.
- Undergraduate courses in: a) social/behavioral sciences, b) biology, c) physics or chemistry, and d) statistics are required for clinical certification of audiologists and speech-language pathologists by the American Speech-Language-Hearing Association.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1110 - College Algebra for Calculus or MTH 1112 - College Algebra Through Modeling (one of which is required in the Ancillary Courses)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- **Recommended:** BIO 1080 - General Biology I and BIO 1090 - General Biology Laboratory I (both courses are required in the Ancillary Courses)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Ancillary Courses: 8 credits

Required ancillary courses may be used to fulfill General Studies requirements.

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- MTH 1110 - College Algebra for Calculus **Credits: 4**

or

- MTH 1112 - College Algebra Through Modeling **Credits:** 4
- Required Courses: 30 credits
- SLHS 1500 - Introduction to Communication Sciences **Credits:** 3
- SLHS 2100 - Language Acquisition and Development **Credits:** 3
- SLHS 2530 - Speech Science **Credits:** 3
- SLHS 3200 - Clinical Phonetics **Credits:** 3
- SLHS 3300 - Principles of Assessment and Intervention **Credits:** 3
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits:** 3
- SLHS 3600 - Diagnostic Audiology **Credits:** 3
- SLHS 4100 - Language Disorders and Differences **Credits:** 3
- SLHS 4200 - Speech Disorders and Differences **Credits:** 3
- SLHS 4610 - Aural Rehabilitation **Credits:** 3

Minor and Unrestricted Electives	34-56 credits
<b>Total for the Speech, Language, Hearing Sciences Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Speech, Language, Hearing Sciences Minor

Students seeking a Speech, Language, Hearing Sciences minor are required to take a minimum of 18 semester hours, nine of which must be upper division. A grade of C or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

Visit the department webpage to schedule an advising appointment.

## Required Courses: 6 credits

- SLHS 1500 - Introduction to Communication Sciences **Credits:** 3
- SLHS 3000 - Foundations of Disability Studies through Media **Credits:** 3

## Additional Elective Courses: 12 credits

Select four courses from the following list. Three courses need to be upper division.

- COMM 3000 - Diversity and Communication in the U.S. **Credits:** 3
- SLHS 1610 - American Sign Language I **Credits:** 3
- SLHS 1620 - American Sign Language II **Credits:** 3
- SLHS 2100 - Language Acquisition and Development **Credits:** 3
- SLHS 2530 - Speech Science **Credits:** 3
- SLHS 2990 - Introduction to Health Communication **Credits:** 3
- SLHS 3200 - Clinical Phonetics **Credits:** 3
- SLHS 3300 - Principles of Assessment and Intervention **Credits:** 3
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits:** 3
- SLHS 3600 - Diagnostic Audiology **Credits:** 3
- SLHS 4100 - Language Disorders and Differences **Credits:** 3
- SLHS 4200 - Speech Disorders and Differences **Credits:** 3
- SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences **Credits:** 3
- SLHS 4350 - Speech-Language Pathology Assistant Methods **Credits:** 7
- SLHS 4610 - Aural Rehabilitation **Credits:** 3

## Elective Courses: 5-9 credits

Select 5-9 credits from the following courses:

- COMM 3000 - Diversity and Communication in the U.S. **Credits:** 3
- LING 2010 - Introduction to Linguistics **Credits:** 3
- LING 3011 - Analyzing English **Credits:** 3
- SLHS 1610 - American Sign Language I **Credits:** 3
- SLHS 1620 - American Sign Language II **Credits:** 3
- SLHS 2990 - Introduction to Health Communication **Credits:** 3
- SLHS 3000 - Foundations of Disability Studies through Media **Credits:** 3
- SLHS 4350 - Speech-Language Pathology Assistant Methods **Credits:** 7
- SLHS 4530 - Neural Bases of Communication and Its Disorders **Credits:** 3

## Senior Experience: 3-7 credits

- SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences **Credits:** 3

or

- SLHS 4350 - Speech-Language Pathology Assistant Methods **Credits:** 7

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Ancillary Courses	8 credits
Major Required Courses	30 credits
Major Electives	5-9 credits
Senior Experience	3-7 credits

*Note: Some courses require prerequisites and may need to progress in a certain order. See suggested Elective Progressions, these are not mandatory and should not replace consultation with SLHS advisor. Visit the department webpage to schedule an advising appointment.*

## Speech Elective Progression

The following Elective Progression recommendations are not mandatory but are provided to show examples of how electives can cater to a particular interest in the field. Students should consult with an SLHS advisor. Visit the department webpage to schedule an advising appointment.

- SLHS 2530 - Speech Science **Credits: 3**
- SLHS 3200 - Clinical Phonetics **Credits: 3**
- SLHS 3300 - Principles of Assessment and Intervention **Credits: 3**
- SLHS 4200 - Speech Disorders and Differences **Credits: 3**

## Language Elective Progression

- SLHS 2100 - Language Acquisition and Development **Credits: 3**
- SLHS 3300 - Principles of Assessment and Intervention **Credits: 3**
- SLHS 4100 - Language Disorders and Differences **Credits: 3**

and

- SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences **Credits: 3**

or

- COMM 3000 - Diversity and Communication in the U.S. **Credits: 3**

## Audiology Elective Progression

- SLHS 2530 - Speech Science **Credits: 3**
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits: 3**
- SLHS 3600 - Diagnostic Audiology **Credits: 3**
- SLHS 4610 - Aural Rehabilitation **Credits: 3**

## Science Elective Progression

- SLHS 2530 - Speech Science **Credits: 3**
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits: 3**
- SLHS 4530 - Neural Bases of Communication and Its Disorders **Credits: 3**

and

- SLHS 3200 - Clinical Phonetics **Credits: 3**

or

- SLHS 3600 - Diagnostic Audiology **Credits: 3**

or

- SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences **Credits: 3**

Total: 18 credits

## Speech-Language Pathology Assistant Certificate

This certificate prepares students who have a bachelor's degree in a field outside of SLHS to obtain the Colorado Department of Education Authorization for Speech-Language Pathology Assistants (SLP-A).

MSU Denver prerequisites to SLHS 2100, SLHS 2530, and SLHS 3530 will be waived for post-bachelors students seeking the SLP-A certificate. However, students who lack background in algebra, general biology, and/or English grammar should consider taking the recommended prerequisites.

Certificate courses must be taken in a prescribed sequence. Students should contact an SLHS advisor to obtain a transcript evaluation and more information about registration procedures.

Entrance to the certificate's capstone course (SLHS 4350) requires a cumulative GPA of 2.5 or better and at least a C in all SLHS prerequisite courses. Students must apply to be considered for SLHS 4350. Visit the department webpage for information on what the application includes: <https://www.msudenver.edu/speech-language-hearing-sciences/undergraduateprogram/>.

## Required Courses

- SLHS 2100 - Language Acquisition and Development **Credits: 3**
- SLHS 2530 - Speech Science **Credits: 3**
- SLHS 3200 - Clinical Phonetics **Credits: 3**
- SLHS 3530 - Anatomy and Physiology of Speech and Hearing **Credits: 3**
- SLHS 3600 - Diagnostic Audiology **Credits: 3**
- SLHS 4100 - Language Disorders and Differences **Credits: 3**
- SLHS 4200 - Speech Disorders and Differences **Credits: 3**
- SLHS 4350 - Speech-Language Pathology Assistant Methods **Credits: 7**
- SLHS 4610 - Aural Rehabilitation **Credits: 3**

Total: 31 credits

# College of Letters, Arts and Sciences

## Mission

The mission of the College of Letters, Arts and Sciences is to provide an integrated education to engage students in deliberative dialogues, undergraduate research and experiential learning. We prepare students to engage in civic problem-solving to address the most pressing issues in society, and to create an enriching life.

## Academic Departments

The College of Letters, Arts and Sciences offers more than 50 major and minor programs through 19 departments and 1 Institute. The faculty teach the majority of the General Studies Program and help prepare students to be teachers in their content area. The College offers an interdisciplinary curriculum with programs of study in the humanities, and in social, natural, and mathematical sciences. The programs prepare students for careers, graduate work, and lifelong learning.

- [Department of Africana Studies](#)
- [Department of Art](#)
- [Department of Biology](#)
- [Department of Chemistry and Biochemistry](#)
- [Department of Chicana and Chicano Studies](#)
- [Department of Communication Studies](#)
- [Department of Earth and Atmospheric Sciences](#)
- [Department of English](#)
- [Department of History](#)
- [Department of Journalism and Media Production](#)
- [Department of Mathematics and Statistics](#)
- [Department of Modern Languages](#)
- [Department of Music](#)
- [Department of Philosophy](#)
- [Department of Physics](#)
- [Department of Political Science](#)
- [Department of Psychological Sciences](#)
- [Department of Sociology and Anthropology](#)
- [Department of Theatre and Dance](#)
- [Gender Institute for Teaching and Advocacy](#)

## Academic Centers and Programs

Through centers, the College of Letters, Arts and Sciences advances educational and social goals:

- The Center for Advanced STEM Education leads the effort to reform science and mathematics education in Colorado. The Center contributes to systemic change in education by building cooperative programs with other colleges and universities, public schools, and the Colorado Department of Education. The Center is the focal point for the Colorado

Alliance for Science, a statewide alliance. The Center also develops programs and services for students from underrepresented groups in the areas of mathematics, science and environmental education. Currently, the Center is a site for the Colorado Alliance for Minority Participation (CO-AMP) and offers tutoring and mentoring services to these students. The Colorado Alliance for Science, a statewide alliance of universities, offers assistance and support to students and teachers to strengthen the community's interest in science and mathematics. [msudenver.edu/case/](https://msudenver.edu/case/)

- The Golda Meir Center for Political Leadership is a nonpartisan, educational project designed to foster greater public understanding of the role and meaning of leadership at all levels of civic life, from community affairs to international relations. [msudenver.edu/golda](https://msudenver.edu/golda)
- The Family Literacy Program provides learning within a family context by offering four comprehensive home and school based literacy initiatives to enhance the relationships between parents and children. <https://msudenver.edu/flp/>
- Journey through Our Heritage is one of the nation's most innovative and unique multi-cultural educational programs that partners college peer mentors with local high school students. Students engage in a year long program that enhances the public school system's curriculum in the areas of African American, Native American Chicano/a, Mexicana/o, Mexican American and Latina/o Studies. <https://msudenver.edu/journey/>

## Department of Africana Studies

The Department of Africana Studies offers a range of courses that capture the depth and breadth of global African experiences, both historically and contemporarily. Specifically, *Africana* is an inclusive term, one that encompasses Black communities in the Caribbean, Europe, Asia and the Americas, as well as those of Continental Africa and the United States. These courses provide a comprehensive understanding of the global African heritage. Furthermore, they illuminate: contributions of Black people to the development of United States and world history; Black cultures and communities; political activity and potential; religious development and importance; community service and resource assistance; and prognosis and potential for social change. Some courses may apply toward General Studies requirements and serve as electives for graduation. Students seeking secondary education licensure with a social studies endorsement must satisfy the teacher education program of MSU Denver in addition to all of the major requirements.

## Academic Programs

- [Africana Studies Major, B.A.](#)
- [Africana Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Africana Studies Minor](#)

The major in Africana Studies, which leads to a Bachelor of Arts degree, and the minor program must be planned in consultation with

the chair of the department. Before declaring Africana Studies as a major, the student must consult with the department chair. Students seeking secondary education licensure must consult with an advisor in Africana Studies and one in Secondary Education.

## Africana Studies Major, B.A.

[Department of Africana Studies](#)

[College of Letters, Arts and Sciences](#)

Program Format(s): [In-Person](#)

### About the Program

The Department of Africana Studies offers a range of courses that capture the depth and breadth of global African experiences, both historically and contemporarily. Specifically, *Africana* is an inclusive term, one that encompasses Black communities in the Caribbean, Europe, Asia and the Americas, as well as those of Continental Africa and the United States. These courses provide a comprehensive understanding of the global African heritage. Furthermore, they illuminate contributions of Black people to the development of United States and world history; Black cultures and communities; political activity and potential; religious development and importance; community service and resource assistance; and prognosis and potential for social change. Some courses may apply toward General Studies requirements and serve as electives for graduation.

The major in Africana Studies, which leads to a Bachelor of Arts degree, and the minor program must be planned in consultation with the chair of the department. Before declaring Africana Studies as a major, the student must consult with the department chair. Students seeking secondary education social studies licensure must consult with an advisor in Africana Studies and one in Secondary Education.

### Student Outcomes

Upon completion of this program students will be able to:

1. List and identify the major contributions of African Americans over the past 400 years and of the peoples of African descent from the earliest times (from Ancient Egypt) to the present in various areas such as history, politics, arts religion, economics, etc.
2. Examine the evolution of the multidisciplinary field of Africana Studies.
3. Explore the key social, economic, political, and cultural issues and challenges facing African Americans and peoples of African descent, including those on Continental Africa.
4. Compare and contrast the similarities and differences in the experiences of African Americans and other peoples of African descent.
5. Analyze current events and social movements in Africa and the African Diaspora.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- **Recommended:** It is recommended that students fulfill this requirement by taking one of the following courses which are part of the Africana Studies major.
  - AAS 1010 - Introduction to Africana Studies (required for major)
  - AAS 3570 - African American History I (required for major)
  - AAS 3300 - The Black Community (option for major)

## Required Courses: 21 credits

- AAS 1010 - Introduction to Africana Studies **Credits: 3**
- AAS 1130 - Survey of African History **Credits: 3**
- AAS 2000 - Social Movements and the Black Experience **Credits: 3**
- AAS 2010 - Interdisciplinary Research Methods in Social Issues **Credits: 3**
- AAS 3570 - African American History I **Credits: 3**
- AAS 3630 - The African Diaspora **Credits: 3**

## Select one from the following:

- AAS 3250 - Black Women Writers **Credits: 3**
- AAS 3300 - The Black Community **Credits: 3**
- AAS 3550 - The Black Family **Credits: 3**
- AAS 3930 - African Authors **Credits: 3**

## Elective Courses: 15 credits

Select 15 semester hours of Africana Studies electives in consultation with an advisor.

## Senior Experience: 3 credits

- AAS 4850 - Research Seminar in Africana Studies **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	21 credits
Major Electives	15 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	48-60 credits
<b>Total for the Africana Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Africana Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Africana Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The African American Studies major will provide candidates with a comprehensive understanding of African heritage in this country through examination of African links; the contributions of African American people in the growth and development of the United States; African American community, culture, lifestyles, political activity, religious development, community service and resource assistance; as well as the prognosis and potential for social change.

Students interested in an Africana Studies Major only should search the catalog separately for that program.

## Student Outcomes

- List and identify the major contributions of African Americans over the past 400 years and of the peoples of African descent from the earliest times (from Ancient Egypt) to the present in various areas such as history, politics, arts religion, economics, etc.
- Define and examine the evolution of the multidisciplinary field of Africana Studies
- Explain the key social, economic, political, and cultural issues and challenges facing African Americans and peoples of African descent, including those on Continental Africa, such as slavery, racism, colonialism, political disfranchisement, economic underdevelopment, educational disparities, neo-colonialism and judicial inequalities, etc.
- Compare and contrast the similarities and differences in the experiences of African Americans and peoples of African descent, such as historical achievements, economic development, state formations, cultural achievements, slavery and freedom, colonialism, and struggles for independence and equality.
- Discuss and analyze the methodological approaches used to study Africana Studies.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of at least 124 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Courses recommended below will satisfy both General Studies and additional degree requirements below.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
- Historical (3 credits)
  - **Recommended:** HIS 1030 - World History to 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the following: ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of Macroeconomics; GEG 1000 - World Regional Geography; PSC 1010 - American National Government
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Africana Studies Major Core: 24 credits

- AAS 1010 - Introduction to Africana Studies **Credits: 3**
- AAS 1130 - Survey of African History **Credits: 3**
- AAS 2000 - Social Movements and the Black Experience **Credits: 3**
- AAS 2010 - Interdisciplinary Research Methods in Social Issues **Credits: 3**
- AAS 3570 - African American History I **Credits: 3**
- AAS 3630 - The African Diaspora **Credits: 3**
- AAS 4850 - Research Seminar in Africana Studies **Credits: 3**

Select one from the following:

- AAS 3250 - Black Women Writers **Credits: 3**
- AAS 3300 - The Black Community **Credits: 3**
- AAS 3550 - The Black Family **Credits: 3**
- AAS 3930 - African Authors **Credits: 3**

## Africana Studies Major Electives: 12 credits

Select 12 semester hours of Africana Studies electives in consultation with an advisor.

## Additional Content Courses Secondary Social Studies Licensure: 27 credits

All students must complete nine (9) Social Science courses for this concentration. Note that six credits below can also satisfy General Studies Social and Behavioral Science requirement. Three credits can satisfy the General Studies Historical requirement. Additionally, GEG 1100 can satisfy three credits of the General Studies Natural and Physical Science requirement.

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**  
or
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**

- PSC 2230 - Introduction to International Relations **Credits:** 3

<b>Total for the Africana Studies Major, B.A. with Secondary Social Studies Licensure Total</b>	<b>Minimum of 124 credits</b>
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**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

### Africana Studies Minor

The Africana Studies Minor must be planned in consultation with the chair of the department. A grade of "C-" or better is required for each course in this program to count toward the Bachelor's degree. Students should note that programs differ in the minimum grade required.

### Required Courses

- AAS 1010 - Introduction to Africana Studies **Credits:** 3
- AAS 2000 - Social Movements and the Black Experience **Credits:** 3

**Subtotal: 6 credits**

### Electives

A minimum of 15 additional semester hours is required in African American courses, 3 hours of which must be an African course, selected in consultation with and approved by the African and African American Studies advisor assigned to the student. Total hours for the minor are 21.

### Department of Art

The Department of Art offers several degrees with distinct purposes and objectives. The Bachelor of Arts in Art is a liberal arts degree providing an opportunity to study a broad range of topics in Visual Art as part of a liberal arts education and to pursue a minor in a different field. Students wishing to pursue a professional degree will pursue a Bachelor of Fine Arts degree. The art department offers the Bachelor of Fine Arts in Art, the Bachelor of Fine Arts in Art Education, or the Bachelor of Fine Arts in Communication Design. Those students wishing to study the history, theory, and criticism of art will pursue the Bachelor of Arts in Art History, Theory and Criticism. All students entering the department will be admitted under either the B.A. in Art or the B.A. in Art History, Theory and Criticism. After completion of the foundation courses and one other course in ART, CDES or ARTH, those wishing to pursue the B.F.A. in Art, the B.F.A. in Art Education, or the B.F.A. in Communication Design will be required to pass a formal portfolio review for admittance into those programs. The department also offers the minor in Studio Art, minor in Art History, Theory and Criticism, and the interdisciplinary Digital Media minor. Coursework leading to

## Foundation and Methods for Secondary Education: 31 credits

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits:** 3
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits:** 1
- MTH 1610 - Integrated Mathematics I **Credits:** 3

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Africana Studies Major Core	24 credits
Africana Studies Major Electives	12 credits
Additional Content Courses Secondary Social Studies Licensure	27 credits
Foundation and Methods for Secondary Education	31 credits
Senior Experience	12 credits

licensure in art education is available for those with an approved Bachelor of Fine Arts degree. The art department's programs are accredited by the National Association of Schools of Art and Design (NASAD).

## Academic Programs

- [Art Major, B.A.](#)
- [Art Major, B.F.A.](#)
- [Art Education Major, B.F.A.](#)
- [Art History, Theory and Criticism Major, B.A.](#)
- [Art History, Theory and Criticism Minor](#)
- [Communication Design Major, B.F.A.](#)
- [Digital Media Minor](#)
- [Studio Art Minor](#)

Note: Art students will be expected to purchase tools and supplies appropriate to the media in which they are working. In addition, all art courses have a program fee for consumable materials and/or modeling fees.

Note: Art majors may not apply ART 1212 - Non-Majors Ceramics: Handbuilding, ART 1213 - Non-Majors Ceramics: Wheelthrowing, ART 1251 - Jewelry and Metals for Non-Art Majors, ART 1261 - Painting for Non-Art Majors, ART 1271 - Film Photography for Non-Majors, ART 1273 - Digital Photography for Non-Art Majors, or ARTH 1500 - Art and Visual Literacy to their degree requirements.

## Art Education Major, B.F.A.

[Department of Art](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Art Education program fuses a progressive 21st century approach in the discipline of Art Education with the student's development as an artist. As a future artist-teacher, the student puts into practice informed research while working in the K-12 classroom. Combining artistic practice, educational studies, and field experience as an educator, the degree prepares students to bring about creative change in the world through the lives of students. The B.F.A. in Art Education includes K-12 Art Education licensure in the State of Colorado and is accredited by both NCATE and NASAD.

## Student Outcomes

- Make artworks that show evidence of intellectual inquiry and curiosity

- Convey ideas that are consistently reinforced through the execution of cohesive work(s) that are the result of the process of making
- Use effective and eloquent oral, written, and visual communication of enduring ideas
- Successfully teach in an art classroom applying and testing principles and methods of diverse age-appropriate instructional approaches and curriculum development that illustrates respect and professionalism for the field of teaching.
- Assess aptitudes, experiential backgrounds and interests of individual and diverse groups of students, and devise learning experiences to meet assessed needs.
- Develop and present a professional portfolio of work and an art education philosophy statement that demonstrates current best practices in the field.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 121 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Art Education majors who elect to take a minor may not minor in Studio Art. Art Education majors who minor in Art History, Theory and Criticism, Digital Media, or Industrial Design should be aware that coursework used to meet requirements for the major may not be used to meet requirements for a minor. Art History, Theory and Criticism is a distinct academic discipline from Art, Art Education, or Communication Design, although all reside within the Department of Art and share common foundational requirements.
- All students entering the department wishing to pursue the Bachelor of Fine Arts (B.F.A.) in Art Education will be admitted under the B.A. in Art. Entrance into the B.F.A. program is contingent on passing a formal portfolio review upon completing 21 credits in ART, CDES, or ARTH, inclusive of the 18 hours of foundations courses required for all students in the department. Students must earn a minimum of a 2.75 G.P.A. in this coursework in the major at the time of portfolio review and have completed the Written Communication, Oral Communication, and Quantitative Literacy General Studies requirements.
- Students who are not admitted to the B.F.A. degree may reapply up to three times. Should a student not be admitted and continue in the B.A. in Art, then the student must select a minor.

- Students pursuing the B.F.A. in Art Education must also achieve satisfactory scores on the state licensure examination. See your advisor for more information. Students seeking teacher licensure should read the teacher licensure sections of this Catalog.
- Students must obtain provisional admission to the teacher preparation program before they may register for their first field experience course(s).
- All teacher candidates must apply to the School of Education teacher preparation program to obtain provisional admission before they can register for EDS 3130, EDS 3140 and EDS 3150. Please Note: \*EDS 3130 and EDS 3140 are corequisites and must be taken concurrently.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1610 - Integrated Mathematics I

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

**Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy\*

**Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools

Global Diversity (0 or 3 credits)\*\*)

*\*EDS 3130 and EDS 3140 are corequisites and must be taken concurrently.*

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement.

Students should consult with their advisor to determine what program courses may fulfill this requirement.

ARTH 3300 - Multiculturalism and American Art is suggested, since it is a requirement in the major.

## Additional Requirements: 7 credits

If EDS 3130 and EDS 3150 are not taken as part of the general studies requirements for Social and Behavioral Sciences as

recommended these courses must be taken as additional requirements for the major.

Please Note: \*EDS 3130 and EDS 3140 are corequisites and must be taken concurrently.

EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**

EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**

## Art Foundation Requirements: 18 credits

ART 1101 - Studio Foundations: 2D **Credits: 3**

ART 1141 - Studio Foundations: Drawing **Credits: 3**

ART 1501 - Studio Foundations: 3D **Credits: 3**

ART 1531 - Studio Foundations: 4D **Credits: 3**

ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**

ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**

## Post-foundation Courses Required for all B.F.A. in Art Education Majors: 51 credits

ART 1505 - The Visual Journal **Credits: 3**

or

ARTH 2600 - Reading and Writing Visual Culture **Credits: 3**

ARTH 2080 - Art of the 20th and 21st Centuries **Credits: 3**

ART 4101 - Advanced Interdisciplinary Studio **Credits: 3**

ARTE 3601 - Introduction to Art Education: History and Philosophy **Credits: 3**

ARTE 3605 - Creating an Inclusive Art Classroom: Curriculum and Instruction **Credits: 3**

ARTE 4130 - Elementary Art Education: Curriculum and Instruction **Credits: 3**

ARTE 4140 - Field Experience: Art Education Elementary **Credits: 1**

ARTE 4230 - Secondary Art Education: Curriculum and Instruction **Credits: 3**

ARTE 4240 - Field Experience: Art Education Secondary **Credits: 1**

ARTE 4701 - Student Teaching and Seminar: Art Education K-12 **Credits: 12**

ARTH 3300 - Multiculturalism and American Art **Credits: 3**

ARTH 4480 - Art Theory and Criticism **Credits: 3**

ARTH XXXX - Upper Division Art History Elective **Credits: 3**

CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**

EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***

EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**

*\* EDS 3130 and EDS 3140 are corequisites and must be taken concurrently.*

## Studio Emphasis: 15 credits

Complete 9 credits in one of the studio areas listed below. Complete an additional 6 credits on a complementary studio area. If the emphasis is in a two-dimensional area, the complementary area would be one of the three-dimensional areas; if the emphasis is in a three-dimensional area, the complementary area would be one of the two-dimensional areas. Students must take at least two intermediate studio courses: one in the emphasis and one in the complementary studio area. Please see the sections below for courses in each emphasis.

## Studio Emphases: Two-Dimensional

### Drawing Emphasis

ART 2641 - Color Drawing: Wet and Dry **Credits: 3**  
ART 2643 - Figure Drawing: Wet and Dry **Credits: 3**  
ART 3642 - Intermediate Drawing **Credits: 3**

### Painting Emphasis

ART 2661 - Beginning Painting: Acrylic and Oil **Credits: 3**  
ART 2666 - Beginning Painting: Watermedia **Credits: 3**  
ART 3662 - Intermediate Painting **Credits: 3**

### Photography Emphasis

ART 2671 - Beginning Photography: Film and Darkroom **Credits: 3**  
ART 2673 - Beginning Photography: Digital **Credits: 3**  
ART 3672 - Intermediate Photography **Credits: 3**

### Printmaking Emphasis

ART 3682 is repeatable and will be taken twice for a total of 6 credits. Students will learn new content each time they take ART 3682.

ART 2682 - Beginning Printmaking: Screen Printing and Relief **Credits: 3**  
ART 3682 - Intermediate Printmaking **Credits: 3**

## Studio Emphases: Three-Dimensional

### Ceramics Emphasis

ART 2611 - Beginning Ceramics: Handbuilding **Credits: 3**  
ART 2613 - Beginning Ceramics: Wheelthrowing **Credits: 3**  
ART 3612 - Intermediate Ceramics **Credits: 3**

### Jewelry Emphasis

ART 3652 is repeatable and will be taken twice for a total of 6 credits. Students will learn new content each time they take ART 3652.

ART 2651 - Beginning Jewelry and Metalsmithing **Credits: 3**  
ART 3652 - Intermediate Jewelry and Metalsmithing **Credits: 3**

## Sculpture Emphasis

ART 2691 - Beginning Sculpture: Woods and Assembly **Credits: 3**  
ART 2693 - Beginning Sculpture: Metals and Fabrication **Credits: 3**  
ART 3692 - Intermediate Sculpture **Credits: 3**

## Integrated Media Requirement: 6 credits

Complete at least six additional credit hours in courses designated as Integrated Media. Choose from:

ART 3215 - Moldmaking and Casting **Credits: 3**  
ART 3235 - Video Art **Credits: 3**  
ART 3301 - The Artist's Book **Credits: 3**  
ART 3393 - Electronics and Experimental Systems **Credits: 3**  
ART 3591 - Digital Fabrication **Credits: 3**  
ART 3613 - Pattern Networks **Credits: 3**  
ART 3637 - Socially Engaged Art **Credits: 3**  
ART 3639 - Performance Art **Credits: 3**  
ART 3663 - Painting and New Contexts **Credits: 3**  
ART 3677 - Experimental Photography **Credits: 3**  
ART 3711 - Current Practices in Ceramics **Credits: 3**  
ART 4030 - Variable Topics in Integrated Media **Credits: 3**  
ART 4601 - Installation Art **Credits: 3**  
ART 4643 - Drawing in Space **Credits: 3**  
ART 4644 - Drawing Identity **Credits: 3**  
ARTH 3780 - Cinema as Visual Art **Credits: 3**  
ARTH 3790 - Photography and Modernism **Credits: 3**  
CDES 2222 - Fundamentals of Communication Design **Credits: 3**  
CDES 2302 - Interactive Systems **Credits: 3**  
CDES 2602 - Interface Design and Development **Credits: 3**  
CDES 3300 - Data-Driven Design **Credits: 3**  
CDES 3602 - Interactive Design I **Credits: 3**  
CDES 3625 - Narrative Design **Credits: 3**  
CDES 4202 - Interactive Design II **Credits: 3**  
CDES 4251 - Designing the Human Experience **Credits: 3**  
CDES 4252 - Mobile Prototyping **Credits: 3**

## Technology Requirement

A technology based studio course is required for licensure. This requirement may be applied to either emphasis or, where appropriate, to the integrated media requirement.

## Senior Experience: 3 credits

ART 4701 - Studio Art Senior Experience: Exhibition and Thesis **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Additional Requirement	7 credits
Art Foundation Requirement	18 credits
Post Foundation Courses	51 credits
Studio Emphasis	15 credits
Integrated Media Requirement	6 credits
Technology Requirement	(counted elsewhere)
Senior Experience	3 credits
<b>Total for the Art Education Major, B.F.A.</b>	<b>Minimum of 121 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 12 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Art History, Theory and Criticism Major, B.A.

[Department of Art](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The B.A. in Art History, Theory and Criticism is an extended major; no minor is required. Students study art and visual culture from a broad variety of cultures and time periods while also learning critical and theoretical frameworks through which to study them. As a liberal arts degree, students gain research and critical thinking skills as well as learn to do close visual analysis which are all useful in a variety of career applications, creative industries, and graduate studies. The Department of Art and MSU Denver are accredited by the National Association of Schools of Art and Design.

### Student Outcomes

- Locate and synthesize a range of scholarly sources of sufficient breadth and depth to thoroughly investigate an art historical problem.
- Apply appropriate art historical methods and theoretical frameworks to analyze an art historical problem.
- Develop and support a clear, logical thesis derived from an art historical study that is eloquently articulated in both oral and written formats.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS NOT required for this program.
- Art History, Theory, and Criticism majors who elect to take a minor may not minor in Art History. Art History, Theory and Criticism majors who minor in Studio Art, Digital Media, or Industrial Design should be aware that coursework used to meet requirements for the major may not be used to meet requirements for a minor. Art History, Theory and Criticism is a distinct academic discipline from Art, Art Education, or Communication Design, although all reside within the Department of Art and share common foundational requirements.
- A minimum of 27 upper-division art history credits required.
- Title and course numbers for variable topics courses will be distinct for each offering, for example: ARTH 354E Art and Culture of the Spanish Golden Age. A student may take up to three distinct offerings under each variable topics designation, for example, ARTH 350A Art of China, ARTH 350B Islamic Art, and ARTH 350D Ancient Maya Art and Culture may all be applied to the requirements.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
 Oral Communication (3 credits)  
 Quantitative Literacy (3 credits)  
 Arts and Humanities (6 credits)  
 Historical (3 credits)  
 Natural and Physical Sciences (6 credits)  
 Social and Behavioral Sciences (6 credits)  
 Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Ancillary Courses: 6-10 credits

Two semesters of the same foreign language are required and may fulfill General Studies requirements.

Students who entered college with fluency in a language other than English are encouraged to study a language with which they are unfamiliar. Students with a good high school background in a foreign language may take intermediate or advanced courses in that language or study a new language. Four semesters of French or German are often required for entrance into most graduate programs in Art History, Theory and Criticism. Both French and German are often required for entrance into Ph.D. programs in Art History, Theory and Criticism and doctoral research often requires research in at least one additional language.

## Art Foundation Requirements: 18 credits

Foundation courses are prerequisites for 2000-level and upper-division courses in the program.

ART 1101 - Studio Foundations: 2D **Credits: 3**  
ART 1141 - Studio Foundations: Drawing **Credits: 3**  
ART 1501 - Studio Foundations: 3D **Credits: 3**  
ART 1531 - Studio Foundations: 4D **Credits: 3**  
ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**  
ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**

## Required Post-foundation Course Work: 10 credits

ARTH 2080 - Art of the 20th and 21st Centuries **Credits: 3**  
ARTH 2600 - Reading and Writing Visual Culture **Credits: 3**  
ARTH 4480 - Art Theory and Criticism **Credits: 3**  
ARTH 4720 - Directed Research in Art History, Theory and Criticism **Credits: 1**

## Art History Electives: 24 credits

At least three courses (9 credits) must be in the history of art prior to 1900.

At least one course (3 credits) must be in art of a non-western culture.

At least one course (3 credits) must be a senior-level seminar, either ARTH 4410, ARTH 4500, or ARTH 4510.

Choose from the following or from approved omnibus courses. See your advisor if you need more information regarding these requirements.

ARTH 3210 - Site Specific Studies in Art History: Variable Topics **Credits: 3**

ARTH 3300 - Multiculturalism and American Art **Credits: 3**

ARTH 3310 - African Art **Credits: 3**

ARTH 3330 - Egyptian Art **Credits: 3**

ARTH 3340 - Asian Art **Credits: 3**

ARTH 3360 - Contemporary Chicana/o Art **Credits: 3**

ARTH 3385 - Feminist Art Since 1960 **Credits: 3**

ARTH 3401 - Art of Ancient Mesoamerica **Credits: 3**

ARTH 3402 - Art of the Ancient Andes **Credits: 3**

ARTH 3405 - Native American Art **Credits: 3**

ARTH 3412 - Greek and Hellenistic Art **Credits: 3**

ARTH 3414 - Roman Art **Credits: 3**

ARTH 3421 - Medieval Art **Credits: 3**

ARTH 3433 - Northern Renaissance Art **Credits: 3**

ARTH 3434 - Italian Renaissance Art **Credits: 3**

ARTH 3441 - Spanish and Italian Baroque Art **Credits: 3**

ARTH 3443 - Northern Baroque Art **Credits: 3**

ARTH 3445 - Spanish Colonial Art **Credits: 3**

ARTH 3481 - Latin American Modernisms **Credits: 3**

ARTH 3500 - Non-Western Art: Variable Topics **Credits: 3**

ARTH 3510 - Variable Topics in Ancient Art **Credits: 3**

ARTH 3520 - Medieval Art: Variable Topics **Credits: 3**

ARTH 3530 - Renaissance Art: Variable Topics **Credits: 3**

ARTH 3540 - Baroque Art: Variable Topics **Credits: 3**

ARTH 3560 - 19th Century Art: Variable Topics **Credits: 3**

ARTH 3580 - 20th and 21st Century Art: Variable Topics

**Credits: 3**

ARTH 3670 - History of Art Between World Wars **Credits: 3**

ARTH 3690 - History of Communication Design **Credits: 3**

ARTH 3780 - Cinema as Visual Art **Credits: 3**

ARTH 3790 - Photography and Modernism **Credits: 3**

ARTH 4410 - Art History and Its Methods **Credits: 3**

ARTH 4500 - Variable Topics Seminar in Art History, Theory and Criticism **Credits: 3**

ARTH 4510 - Exhibiting the Art Object **Credits: 3**

**Subtotal: 24 credits**

## Studio Art Electives: 6 credits

Choose two of the following studio art electives (6 credits). Prerequisites apply - see the catalog for more information.

ART 2611 - Beginning Ceramics: Handbuilding **Credits: 3**

ART 2613 - Beginning Ceramics: Wheelthrowing **Credits: 3**

ART 2641 - Color Drawing: Wet and Dry **Credits: 3**

ART 2643 - Figure Drawing: Wet and Dry **Credits: 3**

ART 2651 - Beginning Jewelry and Metalsmithing **Credits: 3**

ART 2661 - Beginning Painting: Acrylic and Oil **Credits: 3**

ART 2666 - Beginning Painting: Watermedia **Credits: 3**

ART 2671 - Beginning Photography: Film and Darkroom

**Credits: 3**

ART 2673 - Beginning Photography: Digital **Credits: 3**

ART 2682 - Beginning Printmaking: Screen Printing and Relief **Credits: 3**

ART 2691 - Beginning Sculpture: Woods and Assembly **Credits: 3**

ART 2693 - Beginning Sculpture: Metals and Fabrication  
**Credits: 3**  
 CDES 2222 - Fundamentals of Communication Design **Credits:**  
 3

**Subtotal: 6 credits**

### Senior Experience: 3 credits

ARTH 4710 - Art History, Theory and Criticism Senior  
 Experience **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	6-10 credits
Art Foundation Requirements	18 credits
Required Post-Foundation Courses	10 credits
Major Electives	24 credits
Studio Art Electives	6 credits
Senior Experience	3 credits
Unrestricted Electives	13-29 credits
<b>Total for the Art History, Theory and Criticism Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Art History, Theory and Criticism Minor

A grade of "C-" or better is required in each required course before progressing to subsequent courses. Students should note that programs differ in the minimum grade required. A minimum of nine upper division art history hours is required.

Art majors who elect to minor in Art History, Theory and Criticism should be aware that coursework used to meet requirements for the major may not be used to meet requirements for a minor. Art History, Theory and Criticism is a distinct academic discipline from Art or Communication Design, although all reside within the Department of Art and common foundational requirements.

### Required Courses

ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**  
 ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**  
 ARTH 2080 - Art of the 20th and 21st Centuries **Credits: 3**  
 ARTH 2600 - Reading and Writing Visual Culture **Credits: 3**

**Subtotal: 12 credits**

### Art History Electives

Select 12 credits of art history electives.

**Total for Minor: 24 credits**

### Art Major, B.A.

[Department of Art](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Bachelor of Arts in Art is a liberal arts degree that provides students with an opportunity to gain a broad background in visual art and to select a minor that complements their studies in art. The creative problem-solving and critical thinking skills learned in this degree program are useful in a variety of career applications and personal aspirations toward lifelong learning. The Department of Art and MSU Denver are accredited by the National Association of Schools of Art and Design (N.A.S.A.D.).

### Student Outcomes

- Select, evaluate and apply appropriate research resources to develop and support their ideas.
- Apply creative processes to the design and completion of works of art that communicate compelling ideas.
- Clearly synthesize ideas about visual art in verbal form.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.
- Students who are in the B.A. in Art may not minor in Studio Art. Art majors who minor in Art History, Theory and Criticism, Digital Media, or Industrial Design should be aware that coursework used to meet requirements for the major may not be used to meet requirements for a minor. Art History, Theory and

Criticism is a distinct academic discipline from Art, Art Education, or Communication Design, although all reside within the Department of Art and share common foundational requirements.

- B.A. in Art majors are required to meet with an advisor midway through their program to discuss educational goals and selection of a minor; this must be done upon completing 21 credits in the major, inclusive of the 18 hours of foundations courses required for all students in the Department. Additionally, students must have completed their General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy at the time of the advising review. Students will not be able to register for ARTH 2080 until they consult with an advisor to discuss their B.A. coursework.
- Foundation courses are prerequisites for courses within the Art, Communication Design, and Art History, Theory and Criticism majors. Check each course description for specific prerequisites or corequisites.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
Oral Communication (3 credits)  
Quantitative Literacy (3 credits)  
Arts and Humanities (6 credits)  
Historical (3 credits)  
Natural and Physical Sciences (6 credits)  
Social and Behavioral Sciences (6 credits)  
Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Art Foundation Requirements: 18 credits

ART 1101 - Studio Foundations: 2D **Credits: 3**  
ART 1141 - Studio Foundations: Drawing **Credits: 3**  
ART 1501 - Studio Foundations: 3D **Credits: 3**  
ART 1531 - Studio Foundations: 4D **Credits: 3**  
ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**  
ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**

## Required Course Work: 7 credits

ARTH 2080 - Art of the 20th and 21st Centuries **Credits: 3**  
ARTH 2600 - Reading and Writing Visual Culture **Credits: 3**  
ART 3101 - Professional Practices I **Credits: 1**

## Electives in the Major: 21 credits

Select a minimum of 21 credits of electives in the major. At least 9 of these credits must be in upper-division courses that have an ART prefix.\* ART 3701 Professional Practices II may be taken as an elective in the major, but may not be applied to this 9 credit ART requirement. Students are encouraged to include at least one course designated as integrated media.

*\*Prerequisites apply. Students pursuing the B.A. in Art may not enroll in ART 4701, ARTH 4710, CDES 4450, CDES 4600, CDES 4625, CDES 4650, or CDES 4721, or in courses with an ARTE prefix. Certain other advanced ART and CDES courses may be available only to B.F.A. students.*

## 2XXX ART Elective: 3 credits

Students take 3 credit hours in a 2XXX ART elective to complete the major. Select from the following courses.

ART 2611 - Beginning Ceramics: Handbuilding **Credits: 3**  
ART 2613 - Beginning Ceramics: Wheelthrowing **Credits: 3**  
ART 2641 - Color Drawing: Wet and Dry **Credits: 3**  
ART 2643 - Figure Drawing: Wet and Dry **Credits: 3**  
ART 2651 - Beginning Jewelry and Metalsmithing **Credits: 3**  
ART 2661 - Beginning Painting: Acrylic and Oil **Credits: 3**  
ART 2666 - Beginning Painting: Watermedia **Credits: 3**  
ART 2671 - Beginning Photography: Film and Darkroom **Credits: 3**  
ART 2673 - Beginning Photography: Digital **Credits: 3**  
ART 2682 - Beginning Printmaking: Screen Printing and Relief **Credits: 3**  
ART 2691 - Beginning Sculpture: Woods and Assembly **Credits: 3**  
ART 2693 - Beginning Sculpture: Metals and Fabrication **Credits: 3**

## Upper-Division ART Elective: 9 credits

Students take 9 credit hours of 3XXX or 4XXX ART electives to complete the major. Select from the following courses.

ART 3215 - Moldmaking and Casting **Credits: 3**  
ART 3235 - Video Art **Credits: 3**  
ART 3244 - Advanced Figure Drawing **Credits: 3**  
ART 3266 - Community Painting: The Mural **Credits: 3**  
ART 3301 - The Artist's Book **Credits: 3**  
ART 3391 - Fiber Structures **Credits: 3**  
ART 3393 - Electronics and Experimental Systems **Credits: 3**  
ART 3500 - Site Specific Studies in Studio Art: Variable Topics **Credits: 3**

- ART 3591 - Digital Fabrication **Credits:** 3
- ART 3612 - Intermediate Ceramics **Credits:** 3
- ART 3613 - Pattern Networks **Credits:** 3
- ART 3637 - Socially Engaged Art **Credits:** 3
- ART 3639 - Performance Art **Credits:** 3
- ART 3642 - Intermediate Drawing **Credits:** 3
- ART 3652 - Intermediate Jewelry and Metalsmithing **Credits:** 3
- ART 3653 - Miniature Casting Methods **Credits:** 3
- ART 3655 - Enameling Processes **Credits:** 3
- ART 3662 - Intermediate Painting **Credits:** 3
- ART 3663 - Painting and New Contexts **Credits:** 3
- ART 3666 - Advanced Watermedia **Credits:** 3
- ART 3672 - Intermediate Photography **Credits:** 3
- ART 3677 - Experimental Photography **Credits:** 3
- ART 3682 - Intermediate Printmaking **Credits:** 3
- ART 3692 - Intermediate Sculpture **Credits:** 3
- ART 3711 - Current Practices in Ceramics **Credits:** 3
- ART 4030 - Variable Topics in Integrated Media **Credits:** 3
- ART 4601 - Installation Art **Credits:** 3
- ART 4643 - Drawing in Space **Credits:** 3
- ART 4644 - Drawing Identity **Credits:** 3
- ART 4101 - Advanced Interdisciplinary Studio **Credits:** 3

[College of Letters, Arts and Sciences](#)

## About the Program

The Bachelor of Fine Arts in Art prepares students to be critical, creative thinkers and makers. Students often become practicing artists who exhibit their work in professional settings and might continue their research in graduate studies. The Department of Art and MSU Denver are accredited by the National Association of Schools of Art and Design (N.A.S.A.D.).

## Student Outcomes

- Make artworks that show evidence of intellectual inquiry and curiosity;
- Convey ideas that are consistently reinforced through the execution of cohesive work(s) that are the result of the process of making;
- Use effective and eloquent oral, written, and visual communication of enduring ideas.

## ART, ARTH, or CDES Electives: 9 credits

Students take 9 credit hours in ART, ARTH, or CDES electives to complete the major.

## Senior Experience: 3 credits

ART 4710 - Art Senior Experience **Credits:** 3

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Art Foundation Requirements	18 credits
Required Courses	7 credits
Major Electives	21 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	35-44 credits
<b>Total for the Art Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Art Major, B.F.A.

[Department of Art](#)

Available Program Format(s): [In-Person](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Art majors who elect to take a minor may not minor in Studio Art. Art majors who minor in Art History, Theory and Criticism, Digital Media, or Industrial Design should be aware that coursework used to meet requirements for the major may not be used to meet requirements for a minor. Art History, Theory and Criticism is a distinct academic discipline from Art, Art Education, or Communication Design, although all reside within the Department of Art and share common foundational requirements.
- All students entering the department wishing to pursue the Bachelor of Fine Arts (B.F.A.) in Art will be admitted under the B.A. in Art. Entrance into the B.F.A. program is contingent on passing a formal portfolio review upon completing 21 credits in ART, CDES, or ARTH, inclusive of the 18 hours of foundations courses required for all students in the department. Students must earn a minimum of a 2.75 G.P.A. in this coursework in the

major at the time of portfolio review and have completed the Written Communication, Oral Communication, and Quantitative Literacy General Studies requirements.

- Students who are not admitted to the B.F.A. degree may reapply up to three times. Should a student not be admitted and continue in the B.A. in Art, that student must select a minor.
- At least 33 upper-division credits hours in the major are required.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
Oral Communication (3 credits)  
Quantitative Literacy (3 credits)  
Arts and Humanities (6 credits)  
Historical (3 credits)  
Natural and Physical Sciences (6 credits)  
Social and Behavioral Sciences (6 credits)  
Global Diversity (0 or 3 credits)\*\*

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Art Foundation Requirements: 18 credits

ART 1101 - Studio Foundations: 2D **Credits:** 3  
ART 1141 - Studio Foundations: Drawing **Credits:** 3  
ART 1501 - Studio Foundations: 3D **Credits:** 3  
ART 1531 - Studio Foundations: 4D **Credits:** 3  
ARTH 1600 - World Art I: Art Prior to 1400 **Credits:** 3  
ARTH 1700 - World Art II: Art 1400-1900 **Credits:** 3

## Post-foundation Courses Required for all B.F.A. in Art Majors: 15 credits

ARTH 2080 - Art of the 20th and 21st Centuries **Credits:** 3  
ART 3101 - Professional Practices I **Credits:** 1  
ART 3701 - Professional Practices II **Credits:** 2  
ART 4101 - Advanced Interdisciplinary Studio **Credits:** 3  
ARTH 4480 - Art Theory and Criticism **Credits:** 3

ARTH XXXX - Upper-division Art History Elective **Credits:** 3\*

*\*The multicultural requirement may be satisfied by taking an approved multicultural course in General Studies, in the major, or as an elective. ARTH 3300 or ARTH 3360 (CHS 3025) may be taken for the multicultural requirement, but will not satisfy the upper division art history elective requirement for the B.F.A. in Art, the B.F.A. In Art Education, or the B.F.A. in Communication Design degrees.*

## Studio Emphasis: 15 credits

Complete 9 credits in one of the studio areas listed below

Complete an additional 6 credits on a complementary studio area. If the emphasis is in a two-dimensional area, the complementary area would be one of the three-dimensional areas; if the emphasis is in a three-dimensional area, the complementary area would be one of the two-dimensional areas.

Students must take at least two intermediate studio courses: one in the emphasis and one in the complementary studio area.

### Two-dimensional Studio Areas

Drawing  
Painting  
Photography  
Printmaking

### Three-dimensional Studio Areas

Ceramics  
Jewelry  
Sculpture

## Studio Emphases: Two-Dimensional

### Drawing Emphasis

The following courses are required for the emphasis:

ART 2641 - Color Drawing: Wet and Dry **Credits:** 3  
ART 2643 - Figure Drawing: Wet and Dry **Credits:** 3  
ART 3642 - Intermediate Drawing **Credits:** 3

### Painting Emphasis

The following courses are required for the emphasis:

ART 2661 - Beginning Painting: Acrylic and Oil **Credits:** 3  
ART 2666 - Beginning Painting: Watermedia **Credits:** 3  
ART 3662 - Intermediate Painting **Credits:** 3

## Photography Emphasis

The following courses are required for the emphasis:

- ART 2671 - Beginning Photography: Film and Darkroom **Credits: 3**
- ART 2673 - Beginning Photography: Digital **Credits: 3**
- ART 3672 - Intermediate Photography **Credits: 3**

## Printmaking Emphasis

The following courses are required for the emphasis (9 credits total). ART 3682 is repeatable and will be taken twice for a total of 6 credits. Students will learn new content each time they take ART 3682.

- ART 2682 - Beginning Printmaking: Screen Printing and Relief **Credits: 3**
- ART 3682 - Intermediate Printmaking **Credits: 3**

## Studio Emphases: Three-Dimensional

### Ceramics Emphasis

The following courses are required for the emphasis:

- ART 2611 - Beginning Ceramics: Handbuilding **Credits: 3**
- ART 2613 - Beginning Ceramics: Wheelthrowing **Credits: 3**
- ART 3612 - Intermediate Ceramics **Credits: 3**

### Jewelry Emphasis

The following courses are required for the emphasis (9 credits total). ART 3652 is repeatable and will be taken twice for a total of 6 credits. Students will learn new content each time they take ART 3652.

- ART 2651 - Beginning Jewelry and Metalsmithing **Credits: 3**
- ART 3652 - Intermediate Jewelry and Metalsmithing **Credits: 3**

### Sculpture Emphasis

The following courses are required for the emphasis:

- ART 2691 - Beginning Sculpture: Woods and Assembly **Credits: 3**
- ART 2693 - Beginning Sculpture: Metals and Fabrication **Credits: 3**
- ART 3692 - Intermediate Sculpture **Credits: 3**

## Integrated Media Courses: 15 credits

The Art Department offers a pool of interdisciplinary, thematic-based courses under the designation "integrated media." These courses explore new approaches and technologies, and cross the boundaries between media. The B.F.A. in Art requires 15 credits of integrated

media courses, and all students are encouraged to take advantage of these innovative offerings.

The following courses are designated as integrated media:

- ART 1505 - The Visual Journal **Credits: 3**
- ART 3215 - Moldmaking and Casting **Credits: 3**
- ART 3235 - Video Art **Credits: 3**
- ART 3301 - The Artist's Book **Credits: 3**
- ART 3393 - Electronics and Experimental Systems **Credits: 3**
- ART 3591 - Digital Fabrication **Credits: 3**
- ART 3613 - Pattern Networks **Credits: 3**
- ART 3637 - Socially Engaged Art **Credits: 3**
- ART 3639 - Performance Art **Credits: 3**
- ART 3663 - Painting and New Contexts **Credits: 3**
- ART 3677 - Experimental Photography **Credits: 3**
- ART 3711 - Current Practices in Ceramics **Credits: 3**
- ART 4030 - Variable Topics in Integrated Media **Credits: 3**
- ART 4601 - Installation Art **Credits: 3**
- ART 4643 - Drawing in Space **Credits: 3**
- ART 4644 - Drawing Identity **Credits: 3**
- ARTH 3780 - Cinema as Visual Art **Credits: 3**
- ARTH 3790 - Photography and Modernism **Credits: 3**
- CDES 2222 - Fundamentals of Communication Design **Credits: 3**
- CDES 2302 - Interactive Systems **Credits: 3**
- CDES 2602 - Interface Design and Development **Credits: 3**
- CDES 3101 - Community-Based Design **Credits: 3**
- CDES 3300 - Data-Driven Design **Credits: 3**
- CDES 3602 - Interactive Design I **Credits: 3**
- CDES 3625 - Narrative Design **Credits: 3**
- CDES 4202 - Interactive Design II **Credits: 3**
- CDES 4251 - Designing the Human Experience **Credits: 3**
- CDES 4252 - Mobile Prototyping **Credits: 3**

## ART Electives: 12 credits

At least 12 additional hours in ART classes, at least 6 of which must be upper division.

## Senior Experience: 3 credits

- ART 4701 - Studio Art Senior Experience: Exhibition and Thesis **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Art Foundation Requirements	18 credits
Post Foundation Requirements	15 credits
Studio Emphasis	15 credits
Integrated Media Courses	15 credits
ART Major Electives	12 credit
Senior Experience	3 credits

Unrestricted Electives	6-15 credits
<b>Total for the Art Major, B.F.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Communication Design Major, B.F.A.

[Department of Art](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The B.F.A. in Communication Design is a professional degree that combines oral, written, and visual communication to address a diversity of design problems, from toothpaste tubes to cell phone screens, trademarks and logos, magazines and books to websites. This diversity of contemporary design practice is reflected in the degree which couples sound strategies in research, practice, and visual studies. The Department of Art's Communication Design program challenges students to become informed, thinking designers. The Department of Art and MSU Denver are accredited by the National Association of Schools of Art and Design (N.A.S.A.D.).

### Student Outcomes

- Show evidence of intellectual inquiry and curiosity in design research.
- Convey ideas that are consistently reinforced through cohesive works that are the result of the process of making.
- Effectively articulate oral, written and visual design processes and concepts.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

- Communication Design majors who elect to take a minor in Studio Art, Art History, Theory and Criticism, Digital Media, or Industrial Design should be aware that coursework used to meet requirements for the major may not be used to meet requirements in the minor. Art History, Theory and Criticism is a distinct academic discipline from Art or Communication Design, although all reside within the Department of Art and share common foundations.
- All students entering the department wishing to pursue the Bachelor of Fine Arts (B.F.A.) in Communication Design will be admitted under the B.A. in Art. Entrance into the B.F.A. Communication Design program is contingent on passing a formal portfolio review upon completing 21 credits in ART, CDES, or ARTH, inclusive of the 18 hours of foundations courses required for all students in the department. Students must earn a minimum of a 3.0 G.P.A. in this coursework in the major at the time of portfolio review and have completed the Written Communication, Oral Communication, and Quantitative Literacy General Studies requirements. The G.P.A. will be calculated in a degree progress report processed by the department as "what-if" for the Communication Design major) at the time of portfolio review.
- Students who are not admitted to the B.F.A. degree may reapply up to three times. Should a student not be admitted and continue in the B.A. in Art, that student must select a minor and work toward all of the requirements of the B.A. in Art, which includes upper-division ART coursework.
- The course CDES 3225 Integrated Production Techniques is restricted to Communication Design students who have passed the B.F.A. in Communication Design portfolio review. Students are advised to work with an advisor to plan their degree progress and anticipated portfolio application date well in advance of this course.
- Communication Design students must have a suitable laptop computer before proceeding with CDES 3225 and subsequent courses. See an advisor for specifications.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
 Oral Communication (3 credits)  
 Quantitative Literacy (3 credits)  
 Arts and Humanities (6 credits)  
 Historical (3 credits)  
 Natural and Physical Sciences (6 credits)  
 Social and Behavioral Sciences (6 credits)  
 Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Art Foundation Requirements: 18 credits

ART 1101 - Studio Foundations: 2D **Credits: 3**  
ART 1141 - Studio Foundations: Drawing **Credits: 3**  
ART 1501 - Studio Foundations: 3D **Credits: 3**  
ART 1531 - Studio Foundations: 4D **Credits: 3**  
ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**  
ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**

## Communication Design Requirements: 58 credits

ARTH 2080 - Art of the 20th and 21st Centuries **Credits: 3**  
ARTH 3690 - History of Communication Design **Credits: 3**  
ARTH 4480 - Art Theory and Criticism **Credits: 3**  
CDES 2222 - Fundamentals of Communication Design **Credits: 3**  
CDES 2225 - Typographic Syntax **Credits: 3**  
CDES 2226 - Design Inquiry **Credits: 3**  
CDES 2302 - Interactive Systems **Credits: 3**  
CDES 2602 - Interface Design and Development **Credits: 3**  
CDES 3215 - Typographic Aesthetics **Credits: 3**  
CDES 3222 - Design Research Methods **Credits: 3**  
CDES 3225 - Integrated Production Techniques **Credits: 3**  
CDES 3623 - Identity and Systems Design **Credits: 3**  
CDES 3625 - Narrative Design **Credits: 3**  
CDES 4400 - Thesis Preparation **Credits: 1**  
CDES 4450 - Professional Practices in Communication Design **Credits: 3**  
CDES 4600 - Communication Design Portfolio Development **Credits: 3**  
  
CDES 4625 - Communication Design Internship **Credits: 3**  
or  
CDES 4650 - Studio M **Credits: 3**

### Choose 9 credits from:

CDES 3001 - Zeromile and 'Zines **Credits: 3**  
CDES 3101 - Community-Based Design **Credits: 3**  
CDES 3300 - Data-Driven Design **Credits: 3**  
CDES 3500 - Site Specific Studies in CDES: Variable Topics **Credits: 3**  
CDES 3602 - Interactive Design I **Credits: 3**  
CDES 3980 - Communication Design Junior Internship **Credits: 1-4**  
CDES 4051 - Sight Sound Syntax **Credits: 3**  
CDES 4151 - Design in Public Space **Credits: 3**

CDES 4152 - Citizen Designers: Social Poster Design **Credits: 3**

CDES 4202 - Interactive Design II **Credits: 3**

CDES 4251 - Designing the Human Experience **Credits: 3**

CDES 4252 - Mobile Prototyping **Credits: 3**

CDES 4300 - Variable Topics in Communication Design **Credits: 3**

ARTH XXXX - Upper Division Art History Elective (3 credits)\*

*\*Neither ARTH 3300 nor ARTH 3360 (CHS 3025) may be used as an art history elective for the B.F.A. in Communication Design. ARTH 3300 or ARTH 3360 (CHS 3025) may be used to meet the Multicultural Requirement.*

## Senior Experience: 3 credits

CDES 4721 - Communication Design Senior Experience: Exhibition and Thesis **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Art Foundation Requirements	18 credits
Communication Design Requirements	58 credits
Senior Experience	3 credits
Unrestricted Electives	5-14 credits
<b>Total for the Communication Design Major, B.F.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Studio Art Minor

The Studio Art Minor provides students the opportunity to develop their creative skills which will complement any major. Creativity and critical thinking skills learned in art classes are applicable to a wide range of careers and the minor allows students to explore, respond to, and communicate with their environment through a visual and material language. All students begin with foundational classes and build on their learning through progressively more advanced courses. Course work includes opportunities to work in a variety of media, including ceramics, drawing, jewelry & metalsmithing, painting, printmaking, photography, sculpture, and a selection of communication design, digital, and integrated media coursework.

A grade of "C-" or better is required in each required course before progressing to subsequent courses. Students should note that programs differ in the minimum grade required.

## Required Courses: 18 credits

ART 1101 - Studio Foundations: 2D **Credits: 3**  
ART 1141 - Studio Foundations: Drawing **Credits: 3**  
ART 1501 - Studio Foundations: 3D **Credits: 3**  
ART 1531 - Studio Foundations: 4D **Credits: 3**  
ARTH 1600 - World Art I: Art Prior to 1400 **Credits: 3**  
ARTH 1700 - World Art II: Art 1400-1900 **Credits: 3**

**Subtotal: 18 credits**

## Studio Art Electives: 9 credits

### 2XXX Elective: 3 credits

Students take 3 credit hours in a 2XXX level ART elective or CDES 2222. Select from the following courses:

ART 2611 - Beginning Ceramics: Handbuilding **Credits: 3**  
ART 2613 - Beginning Ceramics: Wheelthrowing **Credits: 3**  
ART 2641 - Color Drawing: Wet and Dry **Credits: 3**  
ART 2643 - Figure Drawing: Wet and Dry **Credits: 3**  
ART 2651 - Beginning Jewelry and Metalsmithing **Credits: 3**  
ART 2661 - Beginning Painting: Acrylic and Oil **Credits: 3**  
ART 2666 - Beginning Painting: Watermedia **Credits: 3**  
ART 2671 - Beginning Photography: Film and Darkroom **Credits: 3**  
ART 2673 - Beginning Photography: Digital **Credits: 3**  
ART 2682 - Beginning Printmaking: Screen Printing and Relief **Credits: 3**  
ART 2691 - Beginning Sculpture: Woods and Assembly **Credits: 3**  
ART 2693 - Beginning Sculpture: Metals and Fabrication **Credits: 3**  
CDES 2222 - Fundamentals of Communication Design **Credits: 3**

## Upper Division Electives: 6 credits

Students choose 6 upper-division credit hours of an ART course or any Integrated Media CDES course.\* Additional prerequisites may be required for upper division coursework in certain media.

*\*ART 3101 does not count towards the 6 upper-division credit hour requirement.*

ART 3215 - Moldmaking and Casting **Credits: 3**  
ART 3235 - Video Art **Credits: 3**  
ART 3244 - Advanced Figure Drawing **Credits: 3**  
ART 3266 - Community Painting: The Mural **Credits: 3**  
ART 3301 - The Artist's Book **Credits: 3**  
ART 3391 - Fiber Structures **Credits: 3**  
ART 3393 - Electronics and Experimental Systems **Credits: 3**  
ART 3500 - Site Specific Studies in Studio Art: Variable Topics **Credits: 3**  
ART 3591 - Digital Fabrication **Credits: 3**

ART 3612 - Intermediate Ceramics **Credits: 3**  
ART 3613 - Pattern Networks **Credits: 3**  
ART 3637 - Socially Engaged Art **Credits: 3**  
ART 3639 - Performance Art **Credits: 3**  
ART 3642 - Intermediate Drawing **Credits: 3**  
ART 3652 - Intermediate Jewelry and Metalsmithing **Credits: 3**  
ART 3653 - Miniature Casting Methods **Credits: 3**  
ART 3655 - Enameling Processes **Credits: 3**  
ART 3662 - Intermediate Painting **Credits: 3**  
ART 3663 - Painting and New Contexts **Credits: 3**  
ART 3666 - Advanced Watermedia **Credits: 3**  
ART 3672 - Intermediate Photography **Credits: 3**  
ART 3677 - Experimental Photography **Credits: 3**  
ART 3682 - Intermediate Printmaking **Credits: 3**  
ART 3692 - Intermediate Sculpture **Credits: 3**  
ART 3711 - Current Practices in Ceramics **Credits: 3**  
ART 4030 - Variable Topics in Integrated Media **Credits: 3**  
ART 4601 - Installation Art **Credits: 3**  
ART 4643 - Drawing in Space **Credits: 3**  
ART 4644 - Drawing Identity **Credits: 3**  
CDES 3625 - Narrative Design **Credits: 3**  
CDES 3500 - Site Specific Studies in CDES: Variable Topics **Credits: 3**

**Total for the Minor: 27 credits**

## Department of Biology

The Department of Biology offers two degrees, the Bachelor of Science in Biology and the Bachelor of Arts in Biology. In addition, the department offers a minor in biology and two concentrations in medical technology and cell and molecular biology. Supportive courses associated with paramedical studies and criminalistics, as well as general courses for enrichment of the non-science student's background, are offered by the department.

Students seeking teacher licensure, either elementary or secondary, should see an advisor in the biology department, as well as in the teacher education program.

Students interested in preparation for medical school or other health professions should contact the biology department for specialized advising. A senior exit exam, The Major Field Test, must be taken during the semester of anticipated graduation. The biology department's main office is located in the Science Building, Room 2042, 303-615-0777.

### Academic Programs

- [Biology Major, B.S.](#)
- [Biology Major, B.A. with Secondary Science Teacher Licensure Concentration](#)
- [Biology Minor](#)

Guidelines for Field Experience, Internship, Practicum, and Workshop Courses

No more than four semester hours with the following course numbers will be applied toward the 40 semester hours of biology courses

required for graduation: BIO 2888, 2980, 2990, 3970, 3980, 4888, 4950, 4980, and 4990. However, additional credits with the above course numbers may be applied toward general elective hours.

## Biology Major, B.A.

[Department of Biology](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Department of Biology degree program provides students with the conceptual framework to examine living organisms from the molecular level to entire ecosystems. Students in both the Biology Major, B.A. and Biology Major, B.S. gain comprehensive knowledge of biological principles as well as the analytical skills and laboratory and field-based scientific training necessary to pursue graduate studies, conduct contemporary biological research, or directly enter the workforce. These majors allow students the flexibility to tailor their coursework toward a particular discipline of interest. The difference between the majors is in the amount of chemistry and mathematics required. Students should consult with a faculty advisor for degree planning towards field-specific career or post-baccalaureate goals.

### Student Outcomes

- I.1. Biology graduates will demonstrate the ability to interpret and apply the principles of cell biology.
- I.2. Biology graduates will demonstrate the ability to interpret and apply the principles of Molecular Biology & Genetics.
- I.3. Biology graduates will demonstrate the ability to interpret and apply the principles of Organismal Biology.
- I.4. Biology graduates will demonstrate the ability to interpret and apply the principles of Population Biology, Evolution, and Ecology.
- II.1. Biology graduates will demonstrate proper use and understanding of a broad range of biological techniques.
- II.2. Biology graduates will use knowledge and observations to formulate hypotheses, identify relevant variables, and design experiments to test hypotheses.
- III.1. Biology graduates will demonstrate the ability to locate and critically analyze sources of biological information.
- III.2. Biology graduates will demonstrate the ability to communicate concepts in biology using the vocabulary of the discipline.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each BIO prefix course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

### Required Non-Biology Courses: 12 credits

All students must complete the following courses. To use CHE 1100 or CHE 1800 for the General Studies Natural and Physical Sciences requirement, students must take the corresponding lab (CHE 1150 or CHE 1801, respectively).

The Math course may count toward the Quantitative Literacy General Studies requirements.

- CHE 1100 - Principles of Chemistry **Credits:** 4
  - CHE 2100 - Introduction to Organic and Biological Chemistry **Credits:** 4
- or

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1810 - General Chemistry II **Credits:** 4
- A minimum of one semester of mathematics starting with MTH 1109 or above. Note - MTH 1210 does not satisfy this requirement. Credits: 4

## Biology Major Required Courses: 19-23 credits

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1091 - General Biology Laboratory II **Credits:** 1
  
- BIO 3520 - General Ecology **Credits:** 3  
and
- BIO 3600 - General Genetics **Credits:** 4  
or
- BIO 3610 - Genetics: Principles and Analysis **Credits:** 4

## Select one of these options: 4-8 credits

### Option 1

- BIO 2100 - General Botany **Credits:** 5

### Option 2

- BIO 2400 - General Microbiology **Credits:** 5

### Option 3

Both courses

- BIO 2310 - Human Anatomy and Physiology I **Credits:** 4
- BIO 2320 - Human Anatomy and Physiology II **Credits:** 4

### Option 4

One of the following two courses

- BIO 3200 - Invertebrate Zoology **Credits:** 4  
or
- BIO 3260 - Vertebrate Zoology **Credits:** 4

## Biology Electives: 17-21

Biology courses selected from the 2000-, 3000-, and 4000-level series, and approved by faculty advisors in the Biology Department, must be completed to bring the total of biology courses approved for the major to 40 semester hours.

## Upper division course requirements

At least 21 semester hours of the major (including General Genetics and General Ecology) must be 3000- and 4000-level BIO courses approved by the Biology Department faculty.

## Senior Experience: 3 credits

- Senior Experience course

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Non-Biology Courses	12 credits
Biology Major Required Courses	19-23 credits
Biology Electives	17-21 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	29-38 credits
Total for the Biology Major, B.A.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Biology Major, B.A. with Secondary Science Teacher Licensure Concentration

[Department of Biology](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Biology Major with Secondary Licensure concentration is designed for those students who plan to teach Secondary Science. The program includes a Biology B.A. Major, and Secondary Education courses required by the Colorado Department of Education for licensure. The major provides students with a background in the Colorado Academic Standards for Science and prepares them to pass the required content exam for licensure.

## Student Outcomes

Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching.

- Teacher candidates will successfully complete student teaching.

#### Biology Major B.A.

- I.1 - 1.4. Biology graduates will demonstrate the ability to interpret and apply the principles of 1. Cell Biology, 2. Molecular Biology & Genetics, 3. Organismal Biology, and 4. Population Biology, Evolution, and Ecology.
- II.1. Biology graduates will demonstrate proper use and understanding of a broad range of biological techniques.
- II.2. Biology graduates will use knowledge and observations to formulate hypotheses, identify relevant variables and design experiments to test hypotheses.
- III.1. Biology graduates will demonstrate the ability to locate and critically analyze sources of biological information.
- III.2. Biology graduates will demonstrate the ability to communicate concepts in biology using the vocabulary of the discipline.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 126 semester hours are required for graduation in this program.
- This extended major does not require a minor.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree.
- A minimum GPA of 2.75 in the Biology Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Those recommended courses below can satisfy additional degree program requirements beyond General Studies.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Student may fulfill this General Studies requirement with MTH 1112 - College Algebra Through Modeling under Mathematics Courses for Secondary Science Licensure. (Note:

depending on the course selected, this may exceed 3 credits.)

- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses for Secondary Science Licensure Concentration. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Method Courses for Secondary Education. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Global Diversity (0 or 3 credits\*)

*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

### Biology Major Core Courses: 38 credits

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1091 - General Biology Laboratory II **Credits:** 1
- BIO 2400 - General Microbiology **Credits:** 5
- BIO 3230 - Principles of Human Anatomy and Physiology for Secondary Education **Credits:** 5
- BIO 3520 - General Ecology **Credits:** 3
- BIO 4850 - Evolution **Credits:** 3
- SCI 3950 - Teaching Science in Secondary Schools **Credits:** 3
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits:** 1

Please select one of the following:

- BIO 3600 - General Genetics **Credits:** 4

or

- BIO 3610 - Genetics: Principles and Analysis **Credits:** 4

Please select upper division Biology courses totaling a minimum of 6 credits:

- BIO 3000-4999 Biology Upper Division Elective
- BIO 3000-4999 Biology Upper Division Elective

## Additional Content Courses for Secondary Science Licensure: 34 credits

All students must complete thirty (30) credits in the following disciplines to prepare to teach Secondary Science. Six or more credits in this category can also satisfy General Studies requirements for Natural and Physical Sciences.

### Chemistry (10 Credits):

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1

### Physics (10 Credits):

- PHY 2010 - College Physics I **Credits:** 4
- PHY 2020 - College Physics II **Credits:** 4
- PHY 2030 - College Physics I Laboratory **Credits:** 1
- PHY 2040 - College Physics II Laboratory **Credits:** 1

### Earth and Space Science (7 Credits):

- GEL 1010 - Physical Geology **Credits:** 4

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits:** 3
- or
- GEG 1100 - Introduction to Physical Geography **Credits:** 3

### Math (7 Credits):

- MTH 1112 - College Algebra Through Modeling **Credits:** 4
- MTH 1120 - College Trigonometry **Credits:** 3

## Foundation and Methods Courses for Secondary Education: 24 credits

All students must complete the following courses in Foundation and Methods Courses for Secondary Education. Before registering for these courses, students should obtain provisional admission to the School of Education. An application can be found [HERE](#). Six or more credits in this category can also satisfy General Studies requirements for Social and Behavioral Sciences. Three credits in this category can also satisfy Multicultural requirement.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4

- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Biology Major Core Courses	38 credits
Additional Content Courses for Secondary Science Licensure	34 credits
Foundation and Methods Courses for Secondary Education	24 credits
Senior Experience	12 credits
Total for the Biology Major, B.A. with Secondary Science Teacher Licensure Concentration	126 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Biology Major, B.S.

[Department of Biology](#)  
[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Department of Biology degree program provides students with the conceptual framework to examine living organisms from the molecular level to entire ecosystems. Students in both the Biology Major, B.A. and Biology Major, B.S. gain comprehensive knowledge of biological principles as well as the analytical skills and laboratory and field-based scientific training necessary to pursue graduate studies, conduct contemporary biological research, or directly enter the workforce. These majors allow students the flexibility to tailor their coursework toward a particular discipline of interest. The difference between the majors is in the amount of chemistry and mathematics required. Students should consult with a faculty advisor for degree planning towards field-specific career or post-baccalaureate goals.

## Student Outcomes

- I.1. Biology graduates will demonstrate the ability to interpret and apply the principles of cell biology.
- I.2. Biology graduates will demonstrate the ability to interpret and apply the principles of Molecular Biology & Genetics.
- I.3. Biology graduates will demonstrate the ability to interpret and apply the principles of Organismal Biology.
- I.4. Biology graduates will demonstrate the ability to interpret and apply the principles of Population Biology, Evolution, and Ecology.
- II.1. Biology graduates will demonstrate proper use and understanding of a broad range of biological techniques.
- II.2. Biology graduates will use knowledge and observations to formulate hypotheses, identify relevant variables and design experiments to test hypotheses.
- III.1. Biology graduates will demonstrate the ability to locate and critically analyze sources of biological information.
- III.2. Biology graduates will demonstrate the ability to communicate concepts in biology using the vocabulary of the discipline.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each BIO prefix course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

## Required Non-Biology Courses: 26-27 credits

All students must complete the following courses. CHE 1800 and CHE 1801 courses may also count toward the Natural and Physical Science General Studies requirements. The Math courses may count toward the Quantitative Literacy General Studies requirements.

- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- CHE 3120 - Organic Chemistry Laboratory 1 **Credits: 1**

Select one of the following course sequences:

- CHE 3100 - Organic Chemistry I **Credits: 4**
- CHE 3110 - Organic Chemistry II **Credits: 3**  
or
- CHE 3090 - Survey of Organic Chemistry **Credits: 4**
- CHE 4310 - Biochemistry I **Credits: 4**

- One year of Mathematics starting with MTH 1109, MTH 1110 or above. **Credits: 8**

## Biology Major Required Courses: 19-23 credits

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**

- BIO 1081 - General Biology II **Credits: 3**
- BIO 1091 - General Biology Laboratory II **Credits: 1**
- BIO 3520 - General Ecology **Credits: 3**  
and
- BIO 3600 - General Genetics **Credits: 4**  
or
- BIO 3610 - Genetics: Principles and Analysis **Credits: 4**

Select one of these options: 4-8 credits

Option 1:

- BIO 2100 - General Botany **Credits: 5**

Option 2:

- BIO 2400 - General Microbiology **Credits: 5**

Option 3:

Both

- BIO 2310 - Human Anatomy and Physiology I **Credits: 4**  
and
- BIO 2320 - Human Anatomy and Physiology II **Credits: 4**

Option 4:

Either

- BIO 3200 - Invertebrate Zoology **Credits: 4**  
or
- BIO 3260 - Vertebrate Zoology **Credits: 4**

Electives: 17-21 credits

- Biology courses selected from the 2000-, 3000-, and 4000-level series, and approved by faculty advisors in the Biology Department, must be completed to bring the total of biology courses approved for the major to 40 semester hours.

Upper division course requirement

At least 21 semester hours of the major (including General Genetics and General Ecology) must be 3000- and 4000-level BIO courses approved by the Biology Department faculty.

Senior Experience: 3 credits

- Senior Experience course

Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Non-Biology Courses	26-27 credits
Biology Major Required Courses	19-23 credits
Major Electives	17-21 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	14-24 credits
<b>Total for the Biology Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Biology Minor**

Students seeking a Biology Minor are required to take a minimum of 24 semester hours, 3 of which must be upper division (3000-4000 level). A grade of C- or better is required for each course in this program to count toward a minor. Students should note that programs differ in the minimum grade required.

Students seeking a Biology Minor are required to take BIO1080, BIO1090, BIO1081, and BIO1091, and must complete at least one organismal course in general botany, human anatomy and physiology, general microbiology, or zoology.

Required Courses

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1091 - General Biology Laboratory II **Credits: 1**

**Select one of these options:**

- Option 1: BIO 2100 - General Botany **Credits: 5**
- Option 2: BIO 2310 - Human Anatomy and Physiology I **Credits: 4**
- Option 3: BIO 2400 - General Microbiology **Credits: 5**
- Option 4: BIO 3200 - Invertebrate Zoology **Credits: 4**
- Option 5: BIO 3260 - Vertebrate Zoology **Credits: 4**

Electives

Biology courses from the 2000-, 3000-, and 4000-level series, approved by the Department of Biology, must be completed to bring the total of biology courses approved for the minor to 24 semester hours. At least 3 of those semester hours must be upper division (3000- or 4000-level) to complete the minor. Students should seek assistance from a Biology department advisor or faculty member in selecting elective courses.

**Total (minimum): 24 credits**

# Department of Chemistry and Biochemistry

[College of Letters, Arts and Sciences](#)

## Academic Programs

- [Chemistry Major for ACS Certified B.S.](#)
- [Chemistry Major, B.A.](#)
- [Chemistry Major, B.S.](#)
- [Biochemistry Major, B.S.](#)
- [Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration](#)
- [Chemistry Minor](#)
- [Criminalistics Minor](#)
- [Quality in the Chemical Industry Certificate](#)

The Department of Chemistry and Biochemistry offers several degree programs: the Bachelor of Science in Chemistry; the Bachelor of Science in Chemistry with American Chemical Society (ACS) Certification; the Bachelor of Science in Biochemistry; the Bachelor of Science in Chemistry with a Criminalistics Concentration; and the Bachelor of Arts in Chemistry. In addition, the department offers minors in chemistry and criminalistics. Students who plan to pursue a career in chemistry / biochemistry after graduation or plan to attend graduate school in chemistry / biochemistry should choose the Bachelor of Science in Chemistry (with or without ACS Certification) or Biochemistry degree programs. The Bachelor of Arts in Chemistry program is designed for students who plan a career in a field related to chemistry, but who do not intend to attend graduate school in chemistry or biochemistry. The Bachelor of Arts option, which requires fewer hours, may be especially attractive to those desiring a second major or secondary education licensure.

Criminalistics is the scientific investigation, identification, and comparison of physical evidence for criminal or civil court proceedings. Criminalists must be trained in many disciplines including chemistry, biology, law enforcement, physics, and mathematics. The four-year criminalistics curriculum leads to a Bachelor of Science degree and includes a half-time internship in a criminalistics laboratory during the senior year. Students in the criminalistics program are encouraged to complete all the requirements for a degree in chemistry approved by the American Chemical Society while completing the criminalistics degree program. Graduates of the program are prepared for employment in criminalistics and have completed the requirements for admission to graduate school in chemistry or criminalistics, medical school, dental school, or law school.

For further information about the criminalistics programs, students should contact the Department of Chemistry and Biochemistry. Students seeking secondary education licensure in science should see an advisor in the Department of Chemistry and Biochemistry, as well as in the teacher education program.

## Biochemistry Major, B.S.

[Department of Chemistry and Biochemistry](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Biochemistry B.S. degree program offers students a focused, intensive education in the natural sciences and in the field of biochemistry. This degree prepares students for graduate work in biochemistry, for biochemical and biomedical careers in industry/government, and for post-graduate studies in the health sciences.

## Student Outcomes

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry, and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment
- Conduct scientific inquiry in an ethical manner
- Handle chemicals and chemical waste safely
- Search, critically evaluate, and properly cite scientific literature
- Use effective oral and written communication skills

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- This degree is an extended major. A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
Oral Communication (3 credits)  
Quantitative Literacy (3 credits)

**Recommended:** MTH 1410 - Calculus I\*  
Arts and Humanities (6 credits)

Historical (3 credits)  
 Natural and Physical Sciences (6 credits)  
**Recommended:** PHY 2010 - College Physics I\* or  
 PHY 2311 - General Physics I\*  
 Social and Behavioral Sciences (6 credits)  
 Global Diversity (0 or 3 credits\*\*)

Select one of the following Genetics courses:

BIO 3600 - General Genetics **Credits:** 4  
 OR  
 BIO 3610 - Genetics: Principles and Analysis **Credits:** 4  
 MTH 1410 - Calculus I **Credits:** 4  
 MTH 2410 - Calculus II **Credits:** 4

Select one of these two options:

### Option 1

PHY 2010 - College Physics I **Credits:** 4  
 PHY 2020 - College Physics II **Credits:** 4  
 PHY 2030 - College Physics I Laboratory **Credits:** 1  
 PHY 2040 - College Physics II Laboratory **Credits:** 1

### Option 2

PHY 2311 - General Physics I **Credits:** 4  
 PHY 2321 - General Physics I Laboratory **Credits:** 1  
 PHY 2331 - General Physics II **Credits:** 4  
 PHY 2341 - General Physics II Laboratory **Credits:** 1

**Subtotal: 10 credits**

### Senior Experience: 3 credits

Students must complete a Senior Experience course offered by the Department of Chemistry.

CHE 4390 - Advanced Biochemistry Laboratory **Credits:** 3

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Major Courses	40 credits
Required Non-Chemistry Courses	34 credits
Senior Experience	3 credits
Unrestricted Electives	7-19 credits
<b>Total for the Biochemistry Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Chemistry Major for ACS Certified B.S.

[Department of Chemistry and Biochemistry](#)

Available Program  
 Format(s): [In-Person](#)

\* The listed courses are required courses for the major and can also fulfill general studies requirements

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

### Required Major Courses: 40 credits

CHE 1800 - General Chemistry I **Credits:** 4  
 CHE 1801 - General Chemistry I Laboratory **Credits:** 1  
 CHE 1810 - General Chemistry II **Credits:** 4  
 CHE 1811 - General Chemistry II Laboratory **Credits:** 1  
 CHE 3000 - Analytical Chemistry **Credits:** 3  
 CHE 3010 - Analytical Chemistry Laboratory **Credits:** 2  
 CHE 3100 - Organic Chemistry I **Credits:** 4  
 CHE 3110 - Organic Chemistry II **Credits:** 3  
 CHE 3120 - Organic Chemistry Laboratory 1 **Credits:** 1  
 CHE 3130 - Organic Chemistry Laboratory II **Credits:** 2  
 CHE 3190 - Survey of Physical Chemistry **Credits:** 4  
 CHE 3200 - Survey of Physical Chemistry Laboratory **Credits:** 1  
 CHE 4310 - Biochemistry I **Credits:** 4  
 CHE 4320 - Biochemistry II **Credits:** 4  
 CHE 4350 - Biochemistry Laboratory **Credits:** 2

### Required Non-Chemistry Courses: 34 credits

Biochemistry is, by nature, an interdisciplinary area of study, and the required coursework reflects that reality, offering a complete education in the biochemical, biomedical, and technical fields. The student must satisfy the non-chemistry course requirements below.

*Note: MTH 1410 counts as a Quantitative Literacy General Studies course; the Biology and Physics courses count as Natural and Physical Science General Studies courses.*

BIO 1080 - General Biology I **Credits:** 3  
 BIO 1081 - General Biology II **Credits:** 3  
 BIO 1090 - General Biology Laboratory I **Credits:** 1  
 BIO 1091 - General Biology Laboratory II **Credits:** 1  
 BIO 3050 - Cell Biology **Credits:** 4

## About the Program

The Bachelor of Science in Chemistry degree program provides students an in-depth study of the physical sciences, with an emphasis on chemistry. This program equips students with the chemical knowledge required for pursuing a career as a chemist in industry or government, attending graduate school in chemistry, or attending a professional school such as medicine, pharmacy, or dentistry. Students should consult with the department advisor for assistance with degree planning for specific careers after graduation.

The American Chemical Society certified degree program offers students exposure to each of the major sub-disciplines of chemistry: analytical, organic, inorganic, physical, and biochemical.

## Student Outcomes

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry, and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment.
- Conduct scientific inquiry in an ethical manner.
- Handle chemicals and chemical waste safely.
- Search, critically evaluate, and properly cite scientific literature.
- Use effective oral and written communication skills.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1410 - Calculus I\*

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** PHY 2010 - College Physics I\* or

PHY 2311 - General Physics I\*

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits\*\*)

\* *The listed courses are required ancillary courses for the major and can also fulfill general studies requirements*

\*\* *Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

## Required Ancillary Courses: 22 credits

MTH 1410 - Calculus I **Credits:** 4

MTH 2410 - Calculus II **Credits:** 4

MTH 2420 - Calculus III **Credits:** 4

Select one of the following Physics Lecture/Lab sequences:

PHY 2010 - College Physics I **Credits:** 4

PHY 2030 - College Physics I Laboratory **Credits:** 1

PHY 2020 - College Physics II **Credits:** 4

PHY 2040 - College Physics II Laboratory **Credits:** 1

or

PHY 2311 - General Physics I **Credits:** 4

PHY 2321 - General Physics I Laboratory **Credits:** 1

PHY 2331 - General Physics II **Credits:** 4

PHY 2341 - General Physics II Laboratory **Credits:** 1

*Note: MTH 1410 counts as a Quantitative Literacy General Studies course; the Physics courses count as Natural and Physical Science General Studies courses.*

## Required Courses: 25 credits

Chemistry Core

CHE 1800 - General Chemistry I **Credits:** 4

CHE 1801 - General Chemistry I Laboratory **Credits:** 1

CHE 1810 - General Chemistry II **Credits:** 4

CHE 1811 - General Chemistry II Laboratory **Credits:** 1

CHE 3000 - Analytical Chemistry **Credits:** 3  
 CHE 3010 - Analytical Chemistry Laboratory **Credits:** 2  
 CHE 3100 - Organic Chemistry I **Credits:** 4  
 CHE 3110 - Organic Chemistry II **Credits:** 3  
 CHE 3120 - Organic Chemistry Laboratory 1 **Credits:** 1  
 CHE 3130 - Organic Chemistry Laboratory II **Credits:** 2

OR (only for Criminalistics Concentration)  
 CHE 4710 - Criminalistics Internship II **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	22 credits
Required Courses	25 credits
Additional Required Chemistry Courses	24 credits
Electives	6 credits
Senior Experience	3-4 credits
Unrestricted Electives	3-16 credits
Total for the Chemistry Major for ACS Certified, B.S.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Chemistry Major, B.A.

[Department of Chemistry and Biochemistry](#)

[College of Letters, Arts and Sciences](#)

Available Program  
 Format(s): [In-Person](#)

## About the Program

The Bachelor of Arts in Chemistry degree program offers students exposure to the wide breadth of chemistry, with the ability to tailor their degree with upper-division electives. This program is designed for students who plan a career in a field related to chemistry and may be especially attractive to those desiring secondary education licensure or careers in technical writing, sales, or marketing in chemically related industries. Students should consult with the department advisor for assistance with degree planning for specific careers after graduation.

## Student Outcomes

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry, and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment
- Conduct scientific inquiry in an ethical manner
- Handle chemicals and chemical waste safely
- Search, critically evaluate, and properly cite scientific literature
- Use effective oral and written communication skills

## Additional Required Chemistry Courses: 24 credits

Additional Courses Required by the American Chemical Society for a Certified B.S.

CHE 3300 - Inorganic Chemistry **Credits:** 3  
 CHE 4100 - Instrumental Analysis **Credits:** 3  
 CHE 4110 - Instrumental Analysis Laboratory **Credits:** 2  
 CHE 4310 - Biochemistry I **Credits:** 4  
 CHE 4450 - Physical Chemistry: Quantum Mechanics and Spectroscopy **Credits:** 4  
 CHE 4460 - Physical Chemistry: Thermodynamics and Kinetics **Credits:** 4  
 CHE 4480 - Physical Chemistry Laboratory: Quantum and Spectroscopy **Credits:** 2  
 CHE 4490 - Physical Chemistry Laboratory: Thermodynamics and Kinetics **Credits:** 2

## Electives: 6 credits

A minimum of 6 upper-division semester hours in chemistry courses selected from the list below.

Restrictions: CHE 4950 and CHE 4960 do not count as electives; however, CHE 4300 can be completed as both an elective and Senior Experience course.

CHE 3050 - Environmental Chemistry **Credits:** 3  
 CHE 3700 - Forensic Chemistry **Credits:** 4  
 CHE 3710 - Forensic Biochemistry **Credits:** 4  
 CHE 3810 - Chemistry Literature and Research **Credits:** 1  
 CHE 4010 - Advanced Organic Chemistry **Credits:** 3  
 CHE 4020 - Synthetic Organic Chemistry **Credits:** 3  
 CHE 4300 - Advanced Inorganic Chemistry **Credits:** 4  
 CHE 4320 - Biochemistry II **Credits:** 4  
 CHE 4350 - Biochemistry Laboratory **Credits:** 2  
 CHE 4370 - Undergraduate Research in Chemistry **Credits:** 1-2  
 CHE 4800 - Special Topics in Chemistry **Credits:** 4

## Senior Experience: 3-4 credits

Students must complete a Senior Experience course offered by the Department of Chemistry and Biochemistry.

CHE 4950 - Senior Experience in Chemistry **Credits:** 3  
 or  
 CHE 4960 - Senior Experience in Biochemistry **Credits:** 3  
 or  
 CHE 4300 - Advanced Inorganic Chemistry **Credits:** 4

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1410 - Calculus I\*

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** PHY 2010 - College Physics I\* or

PHY 2311 - General Physics I\*

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits\*\*)

\* *The listed courses are required ancillary courses for the major and can also fulfill general studies requirements*

\*\* *Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

## Required Ancillary Courses: 8 credits

MTH 1410 - Calculus I **Credits: 4**

Select one of the following Physics lecture courses:

PHY 2010 - College Physics I **Credits: 4**

or

PHY 2311 - General Physics I **Credits: 4**

*Note: MTH 1410 counts as a Quantitative Literacy General Studies course; the Physics courses count as Natural and Physical Science General Studies courses.*

## Required Courses: 30 credits

CHE 1800 - General Chemistry I **Credits: 4**

CHE 1801 - General Chemistry I Laboratory **Credits: 1**

CHE 1810 - General Chemistry II **Credits: 4**

CHE 1811 - General Chemistry II Laboratory **Credits: 1**

CHE 3000 - Analytical Chemistry **Credits: 3**

CHE 3010 - Analytical Chemistry Laboratory **Credits: 2**

CHE 3100 - Organic Chemistry I **Credits: 4**

CHE 3110 - Organic Chemistry II **Credits: 3**

CHE 3120 - Organic Chemistry Laboratory I **Credits: 1**

CHE 3130 - Organic Chemistry Laboratory II **Credits: 2**

CHE 3190 - Survey of Physical Chemistry **Credits: 4**

CHE 3200 - Survey of Physical Chemistry Laboratory **Credits:**

1

## Electives: 6 credits

A minimum of 6 upper-division semester hours in chemistry courses selected from the list below.

Restrictions: CHE 4950 and CHE 4960 do not count as electives; however, CHE 4300 can be completed as both an elective and Senior Experience course.

CHE 3050 - Environmental Chemistry **Credits: 3**

CHE 3300 - Inorganic Chemistry **Credits: 3**

CHE 3700 - Forensic Chemistry **Credits: 4**

CHE 3710 - Forensic Biochemistry **Credits: 4**

CHE 3810 - Chemistry Literature and Research **Credits: 1**

CHE 4010 - Advanced Organic Chemistry **Credits: 3**

CHE 4020 - Synthetic Organic Chemistry **Credits: 3**

CHE 4100 - Instrumental Analysis **Credits: 3**

CHE 4110 - Instrumental Analysis Laboratory **Credits: 2**

CHE 4300 - Advanced Inorganic Chemistry **Credits: 4**

CHE 4310 - Biochemistry I **Credits: 4**

CHE 4320 - Biochemistry II **Credits: 4**

CHE 4350 - Biochemistry Laboratory **Credits: 2**

CHE 4370 - Undergraduate Research in Chemistry **Credits: 1-2**

CHE 4800 - Special Topics in Chemistry **Credits: 4**

## Senior Experience: 3-4 credits

Students must complete a Senior Experience course offered by the Department of Chemistry and Biochemistry.

CHE 4300 - Advanced Inorganic Chemistry **Credits: 4**

or

CHE 4950 - Senior Experience in Chemistry **Credits:** 3  
 or  
 CHE 4960 - Senior Experience in Biochemistry **Credits:** 3

- Teacher candidates will successfully complete student teaching.

Chemistry Major, B.A.

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment.
- Conduct scientific inquiry in an ethical manner.
- Handle chemicals and chemical waste safely.
- Search, critically evaluate, and properly cite scientific literature.
- Use effective oral and written communication skills.

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	8 credits
Required Courses	30 credits
Major Electives	6 credits
Senior Experience	3-4 credits
Minor and Unrestricted Electives	36-49 credits
Total for the Chemistry Minor, B.A.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration

[Department of Chemistry and Biochemistry](#)

[College of Letters, Arts and Sciences](#)

Available Program  
 Format(s): [In-Person](#)

### About the Program

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Science Education with a major in Chemistry must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Chemistry major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Chemistry education program meets the Colorado Science Licensure Standards and addresses the objectives of the General Science content area examination. The core curriculum adds a firm foundation in Biology, Physics, Earth and Space Science, and Mathematics. The Colorado Academic Standards in Science are strongly emphasized within the curriculum. Science Licensure candidates must declare their major with the appropriate concentration in Secondary Science Licensure.

### Student Outcomes

Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** Students may fulfill this General Studies requirement with MTH 1410 - Calculus I or its prerequisites.

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses for Secondary Science Licensure Concentration.

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational

Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Method Courses for Secondary Education.

Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

### Chemistry Major Core Courses: 36 credits

- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- CHE 3000 - Analytical Chemistry **Credits: 3**
- CHE 3010 - Analytical Chemistry Laboratory **Credits: 2**
- CHE 3100 - Organic Chemistry I **Credits: 4**
- CHE 3110 - Organic Chemistry II **Credits: 3**
- CHE 3120 - Organic Chemistry Laboratory 1 **Credits: 1**
- CHE 3130 - Organic Chemistry Laboratory II **Credits: 2**
- CHE 3190 - Survey of Physical Chemistry **Credits: 4**
- CHE 3200 - Survey of Physical Chemistry Laboratory **Credits: 1**

Upper Division Chemistry Electives: 6 credit hours

### Additional Content Courses Required for Secondary Science Licensure: 29 credits

Six or more credits in this category can also satisfy General Studies requirements for Natural and Physical Sciences.

#### Biology (8 credits):

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 1091 - General Biology Laboratory II **Credits: 1**

#### Physics (10 credits):

- PHY 2010 - College Physics I **Credits: 4**
- PHY 2020 - College Physics II **Credits: 4**
- PHY 2030 - College Physics I Laboratory **Credits: 1**
- PHY 2040 - College Physics II Laboratory **Credits: 1**

#### Earth and Space Science (7 credits):

- GEL 1010 - Physical Geology **Credits: 4**
- MTR 1400 - Weather and Climate **Credits: 3**
- or
- GEG 1100 - Introduction to Physical Geography **Credits: 3**

#### Mathematics:

- MTH 1410 - Calculus I **Credits: 4**

### Secondary Education Foundation and Methods Courses: 28 credits

All the courses in this area are required for Secondary Science Licensure. Some course pairs must be taken together; please see an advisor in the School of Education for more detail on recommended sequence. You should complete your General Studies and at least half of your major and additional content area courses before beginning Teacher Education courses.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1 \*\***
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3 \*\***
- SCI 3950 - Teaching Science in Secondary Schools **Credits: 3 \*\***
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits: 1 (60-hour field experience)\*\***

*\* Requires at least provisional admission to the School of Education*

*\*\*Requires formal admission to the School of Education*

### Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Chemistry Major Courses	36 credits

Additional Content Courses Required for Secondary Science Licensure	29 credits
Foundation and Methods Courses	28 credits
Senior Experience	12 credits
<b>Total for the Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration</b>	<b>Minimum 123 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Chemistry Major, B.S.

[Department of Chemistry and Biochemistry](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Bachelor of Science in Chemistry degree program provides students an in-depth study of the physical sciences, with an emphasis on chemistry. This program equips students with the chemical knowledge required for pursuing a career as a chemist in industry or government, attending graduate school in chemistry, or attending a professional school such as medicine, pharmacy, or dentistry. Students should consult with the department advisor for assistance with degree planning for specific careers after graduation.

### Student Outcomes

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry, and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment
- Conduct scientific inquiry in an ethical manner
- Handle chemicals and chemical waste safely
- Search, critically evaluate, and properly cite scientific literature
- Use effective oral and written communication skills

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)

- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- This degree is an extended major. A minor is not required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1410 - Calculus I\*

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** PHY 2010 - College Physics I\*

OR PHY 2311 - General Physics I\*

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits\*\*)

\* The listed courses are required ancillary courses for the major and can also fulfill general studies requirements

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

### Required Ancillary Courses: 22 credits

All students must complete the following courses. These courses can also count towards the General Studies Requirements.

MTH 1410 - Calculus I **Credits:** 4

MTH 2410 - Calculus II **Credits:** 4

MTH 2420 - Calculus III **Credits:** 4

Select one of the following Physics Lecture/Lab sequences:

PHY 2010 - College Physics I **Credits:** 4

PHY 2030 - College Physics I Laboratory **Credits:** 1  
PHY 2020 - College Physics II **Credits:** 4  
PHY 2040 - College Physics II Laboratory **Credits:** 1

or

PHY 2311 - General Physics I **Credits:** 4  
PHY 2321 - General Physics I Laboratory **Credits:** 1  
PHY 2331 - General Physics II **Credits:** 4  
PHY 2341 - General Physics II Laboratory **Credits:** 1

## Required Major Courses: 40 credits

CHE 1800 - General Chemistry I **Credits:** 4  
CHE 1801 - General Chemistry I Laboratory **Credits:** 1  
CHE 1810 - General Chemistry II **Credits:** 4  
CHE 1811 - General Chemistry II Laboratory **Credits:** 1  
CHE 3000 - Analytical Chemistry **Credits:** 3  
CHE 3010 - Analytical Chemistry Laboratory **Credits:** 2  
CHE 3100 - Organic Chemistry I **Credits:** 4  
CHE 3110 - Organic Chemistry II **Credits:** 3  
CHE 3120 - Organic Chemistry Laboratory I **Credits:** 1  
CHE 3130 - Organic Chemistry Laboratory II **Credits:** 2  
CHE 3300 - Inorganic Chemistry **Credits:** 3  
CHE 4450 - Physical Chemistry: Quantum Mechanics and Spectroscopy **Credits:** 4  
CHE 4460 - Physical Chemistry: Thermodynamics and Kinetics **Credits:** 4  
CHE 4480 - Physical Chemistry Laboratory: Quantum and Spectroscopy **Credits:** 2  
CHE 4490 - Physical Chemistry Laboratory: Thermodynamics and Kinetics **Credits:** 2

## Electives: 10 credits

A minimum of 10 semester hours in upper-division, chemistry courses from the list below. CHE 4950 and CHE 4960 do not count as electives; however, CHE 4300 can be completed as both an elective and Senior Experience course.

The following courses are appropriate electives:

CHE 3050 - Environmental Chemistry **Credits:** 3  
CHE 3700 - Forensic Chemistry **Credits:** 4  
CHE 3710 - Forensic Biochemistry **Credits:** 4  
CHE 3810 - Chemistry Literature and Research **Credits:** 1  
CHE 4010 - Advanced Organic Chemistry **Credits:** 3  
CHE 4020 - Synthetic Organic Chemistry **Credits:** 3  
CHE 4100 - Instrumental Analysis **Credits:** 3  
CHE 4110 - Instrumental Analysis Laboratory **Credits:** 2  
CHE 4300 - Advanced Inorganic Chemistry **Credits:** 4  
CHE 4320 - Biochemistry II **Credits:** 4  
CHE 4350 - Biochemistry Laboratory **Credits:** 2  
CHE 4370 - Undergraduate Research in Chemistry **Credits:** 1-2  
CHE 4800 - Special Topics in Chemistry **Credits:** 4

## Senior Experience: 3-4 credits

Students must complete a Senior Experience course offered by the Department of Chemistry and Biochemistry.

CHE 4300 - Advanced Inorganic Chemistry **Credits:** 4  
or  
CHE 4950 - Senior Experience in Chemistry **Credits:** 3  
or  
CHE 4960 - Senior Experience in Biochemistry **Credits:** 3  
or (only for Criminalistics Concentration)  
CHE 4710 - Criminalistics Internship II **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	22 credits
Required Major Courses	40 credits
Electives	10 credits
Senior Experience	3-4 credits
Unrestricted Electives	8-21 credits
<b>Total for the Chemistry Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Chemistry Minor

Students must complete 19 semester hours, plus associated prerequisites within the framework of specific courses, to qualify for a minor in chemistry.

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

CHE 1810 - General Chemistry II **Credits:** 4  
CHE 1811 - General Chemistry II Laboratory **Credits:** 1

**Subtotal: 5 credits**

## Electives

14 semester credit hours of chemistry elective courses are required, such that, when added to the 5 semester credit hours from the "Required Courses" above, 19 total semester credit hours are completed. Information about allowable elective courses are outlined below.

Any CHE 3000-level or 4000-level courses are acceptable with the following specifications:  
Two of these courses must be laboratories

No more than 3 semester credit hours from any combination of CHE 3890, CHE 4650, and CHE 4370

Either of the following Physical Chemistry sequences are acceptable:

Survey of Physical Chemistry lecture and laboratory (CHE 3190 and CHE 3200)

Physical Chemistry: Quantum Mechanics and Spectroscopy lecture and laboratory (CHE 4450 and CHE 4480)

Exceptions: The following courses are not acceptable for the chemistry minor:

Senior Experience Courses (CHE 4300, CHE 4950, and CHE 4960) since these are already University requirements

Crime Scene Investigation I and II Courses (CHE 3600 and CHE 3610)

Students interested in these courses should seek the criminalistics minor.

Recommended course sequences are available in the department office and on the department website. To ensure greater success in planning a minor, students should consult with a faculty or department advisor to ensure their desired course schedule will fulfill the requirements outlined above.

**Subtotal: 14 credits**

**Total for Minor: 19 credits**

## Criminalistics Minor

The Criminalistics Minor, offered by the Department of Chemistry & Biochemistry, is designed to complement Majors in Chemistry, Biochemistry, and Criminal Justice. Students who combine this minor with a Chemistry or Biochemistry major receive a rigorous foundation in the scientific principles used in forensic science laboratories as well as applied skills relevant to scientific analysis of criminal cases. These students are prepared for work in a variety of forensic laboratory positions or for graduate studies in the field. Students who combine this minor with a Criminal Justice major receive a broad law enforcement background with understanding of all phases of criminal investigation. The core courses for the minor cover the ethical and legal aspects of this field as well as the relevant scientific principles at a level understandable among students with a non-science background. The upper-level courses are flexible and include courses for both science and non-science majors.

## Core Courses

CHE 1100 - Principles of Chemistry **Credits: 4**  
CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**  
CHE 2710 - Introduction to Criminalistics **Credits: 3**  
CHE 2711 - Introduction to Criminalistics Laboratory **Credits: 1**  
CHE 3600 - Crime Scene Investigation I **Credits: 4**  
CJC 4650 - Ethics for the Criminal Justice Professional **Credits: 3**

## Elective Courses

CHE 2750 - Arson and Explosives **Credits: 3**  
CHE 2760 - Field Testing and Laboratory Analysis of Drugs **Credits: 1**  
CHE 3610 - Crime Scene Investigation II **Credits: 4**  
CHE 3700 - Forensic Chemistry **Credits: 4**  
CHE 3710 - Forensic Biochemistry **Credits: 4**  
CHE 4710 - Criminalistics Internship II **Credits: 3**  
**Subtotal: 8 credits**

**Total for Minor: 24 credits**

**Notes:**

*CHE 1800 General Chemistry I may be substituted for CHE 1100 Principles of Chemistry.*  
*CHE 1801 General Chemistry Lab may be substituted for CHE 1150 Principles of Chemistry Laboratory.*  
*CJC 4650 requires CJC 1010 Introduction to Criminal Justice as a prerequisite*

## Quality in the Chemical Industry Certificate

The Quality in the Chemical Industry certificate program provides students an in-depth study of the practical application of chemistry in the many industries that rely on chemical analysis. This program equips students with the knowledge of advanced instrumentation, industry standards and practices, and quality assurance / quality control (QA/QC) required for pursuing a successful career as a chemist in industry or government. Students should consult with the department advisor for assistance with degree planning for specific careers after graduation.

This is a certificate program, available to current students, post-baccalaureate students, or current members of the chemical industry seeking additional skills and training for career advancement. A grade of "C" or better is required for each course in this program to count toward the awarded certificate.

## Required Courses

CHE 1810 - General Chemistry II **Credits: 4**  
CHE 1811 - General Chemistry II Laboratory **Credits: 1**  
CHE 3000 - Analytical Chemistry **Credits: 3**  
CHE 3010 - Analytical Chemistry Laboratory **Credits: 2**  
CHE 4100 - Instrumental Analysis **Credits: 3**  
CHE 4110 - Instrumental Analysis Laboratory **Credits: 2**  
CHE 4130 - Quality in the Chemical Industry **Credits: 3**  
CHE 4160 - QA/QC Methods Laboratory **Credits: 1**  
JMP 2610 - Introduction to Technical Writing **Credits: 3**  
**Credits: 22**

## Department of Chicana and Chicano Studies

The Department of Chicana and Chicano Studies offers vibrant, interdisciplinary programs that allow students to study the historical,

cultural, social and economic dynamics of Chicana/o and Latina/o communities in the United States. Adhering to the core values of academic excellence, social justice, human rights, self-empowerment, cultural competence, and responsiveness and service to community, the department works with students to fulfill their diverse academic and professional goals. Students have the following options for majoring in Chicano Studies: the bachelor of arts; and the bachelor of arts with teacher licensure in secondary education social studies. Students can also earn a minor in Chicano Studies.

## Academic Programs

- [Chicano Studies Major, B.A.](#)
- [Chicano Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Chicano Studies Minor](#)

## Chicano Studies Major, B.A.

[Department of Chicana and Chicano Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Chicana/o Studies Department (CHS) adheres to the core values of social justice, human rights, empowerment, cultural responsiveness and service to community. Our teaching, scholarship and mentoring are informed by Liberatory theories and pedagogical practices articulated in the work of scholars such as Paolo Freire who assumes that the teacher is not all-knowing or neutral; the teacher shares their knowledge within their philosophical framework and both teachers and students have a vested interest in the reciprocal process of learning. He states in *Pedagogy of Freedom Ethics, Democracy, and Civic Courage*, "To teach is not to transfer knowledge but to create the possibilities for the production or construction of knowledge...Whoever teaches learns in the act of teaching, and whoever learns teaches in the act of learning" (p.30-31). Moreover, as bell hooks notes, "The classroom, with all its limitations, remains a location of possibility. In that field of possibility, we have the opportunity to labor for freedom, to demand of ourselves and our comrades, an openness of mind and heart that allows us to face reality even as we collectively imagine ways to move beyond boundaries, to transgress. This is education as the practice of freedom" (*Teaching to Transgress: Education as the Practice of Freedom*, 1994, p. 207).

Our mission is to prepare and empower culturally responsive students to engage in critical thinking about the sociohistorical, multicultural, intersectional, and global contexts in which they live, learn and work; understand the changing demographics in US society; and to articulate and analyze public policy issues and implications grounded in the diverse experiences, expressions, social conditions of Chicano/a/x and Latino/a/x and Indigenous communities.

Students must choose one concentration within the major.

The Cultural Studies concentration is designed for students who are interested in topics that study aspects of Chicano/a-Latino/ a cultural production which range from Chicano/a art, film, popular culture; music; religion; literature.

The Social Practice concentration is designed for students interested in working within the diverse Chicano/a and Latina/o communities locally, regionally, nationally and internationally. Potential employment opportunities include, but are not limited to, human services, governmental services, the non-profit sector, legal professions, education, family literacy, community organizing, and labor. Adhering to the interdisciplinary nature of Chicana/o Studies, these courses will rely on the vast scholarship on the above mentioned fields, in addition to having opportunities to work with identified community partners in service learning, internships, and field study.

## Student Outcomes

- Analyze literary works including reference to genre, theme, and tone use of language.
- Identify and analyze cultural texts and artifacts as relevant sources of cultural production.
- Explain phenomena that shape gender roles and relations within Chicana/o & Latina/o communities; i.e. patriarchy, machismo, marianismo, virgin/whore dichotomy.
- Demonstrate intermediate competency in the principle domains of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Identify the sociolinguistic factors that reflect the evolution and utilization of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Demonstrate the ability to utilize praxis: theory + action + reflection, in multiple settings.
- Analyze public policy issues that impact Chicana/o & Latina/o communities: i.e. legal, health care, globalization, free trade, immigration, education and climate change.
- Outline/explain major historical moments and figures that have shaped Chicana/o Latina/o socio- cultural experiences.
- Compare and contrast diverse religious and spiritual experiences in Chicana/o Latina/o communities.
- Recognize the diverse indigenous peoples and communities throughout Meso-America and the contemporary Southwest, which have Chicana/o & Latina/o identities.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Core Required of All Concentrations: 25 credits

- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3** (ENG 2410)
- CHS 3460 - Chicana Feminisms **Credits: 3** (formerly "La Chicana")
- CHS 4850 - Research Experience in Chicana/o Studies **Credits: 3**
- SPA 1010 - Elementary Spanish I **Credits: 5**
- SPA 1020 - Elementary Spanish II **Credits: 5**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**  
or

- SPA 2120 - Spanish Reading and Communication II **Credits: 3**

## Social Practice Concentration: 15 credits

### Required Courses: 9 credits

- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (HON 3101, SWK 3110); (formerly The Chicano Community)
- CHS 3200 - Chicanos and the Law **Credits: 3** (CJC 3720)
- CHS 3300 - Education of Chicano Children **Credits: 3**

### Electives: Choose 6 credits

- CHS 3210 - The Chicano Family **Credits: 3**
- CHS 3660 - Poverty, Race and Gender **Credits: 3** (SOC 3660, SWK 3660, GWS 3660) (formerly Women and Gender)
- CHS 4010 - The Chicano Movement **Credits: 3**
- CHS 4050 - Chicana/o Mental Health Perspectives **Credits: 3**

## Cultural Studies Concentration: 15 credits

### Required Courses: 9 credits

- CHS 2200 - Survey of Chicano/a Cultural Studies **Credits: 3**
- CHS 3400 - The Chicano Novel **Credits: 3**
- CHS 3410 - Chicano Folklore of the Southwest **Credits: 3**

### Electives: Choose 6 credits

- CHS 2600 - Chicana/o and Latina/o Religious Cultures **Credits: 3**
- CHS 3000 - History of Meso-America: Pre-Columbian and Colonial Periods **Credits: 3**
- CHS 3020 - Chicana/o History, 1836 to the Present **Credits: 3**
- CHS 2000 - Living Culture and Language of the Mexican and Chicano **Credits: 3**
- CHS 3010 - The Mexican Revolution **Credits: 3**
- CHS 4210 - Chicanas and the Politics of Gender **Credits: 3**

## Elective Options

For either concentration students may choose from among the following elective courses:

- CHS 2020 - Chicano Poetry and Drama **Credits: 3**
- CHS 2100 - Women of Color **Credits: 3**
- CHS 2500 - Borderland Studies: Variable Topics **Credits: 3**
- CHS 3025 - Contemporary Chicana/o Art **Credits: 3**
- CHS 3210 - The Chicano Family **Credits: 3**

- CHS 3600 - Mexico and Chicana/o Politics **Credits:** 3
- CHS 3800 - Topics in Chicano Studies **Credits:** 3
- CHS 3980 - Internship in Chicana and Chicano Studies **Credits:** 1-15

## Senior Experience: 3 credits

Students must complete any 3-credit hour Senior Experience course. The course within the Chicano Studies department that may be used to fulfill this requirement is:

- CHS 4850 - Research Experience in Chicana/o Studies **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	25 credits
Selected Concentration	15 credits
Senior Experience	0-3 credits
Minor and Unrestricted Electives	44-62 credits
<b>Total for the Chicano Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Chicano Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Chicana and Chicano Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Chicana/o Studies Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach secondary Social Studies in Colorado. The program includes a Chicana/o Studies Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure.

Students interested in a Chicana/o Studies Major only should search the catalog separately for that program.

## Student Outcomes

- Analyze literary works including reference to genre, theme, and tone use of language;
- Identify and analyze cultural texts and artifacts as relevant sources of cultural production;
- Explain phenomena that shape gender roles and relations within Chicana/o & Latina/o communities; i.e. patriarchy, machismo, marianismo, virgin/whore dichotomy;
- Demonstrate intermediate competency in the principle domains of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Identify the sociolinguistic factors that reflect the evolution and utilization of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Demonstrate the ability to utilize praxis: theory + action + reflection, in multiple settings;
- Analyze public policy issues that impact Chicana/o & Latina/o communities: i.e. legal, health care, globalization, free trade, immigration, education and climate change;
- Outline/explain major historical moments and figures that have shaped Chicana/o Latina/o socio-cultural experiences;
- Compare and contrast diverse religious and spiritual experiences in Chicana/o Latina/o communities;
- Recognize the diverse indigenous peoples & communities throughout Meso-America and the contemporary Southwest, which have Chicana/o & Latina/o identities.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 121 semester hours are required for graduation.

- All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
  - **Recommended:** CHS 2010 - Survey of Chicana/o Literature
- Historical (3 credits)
  - **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - Recommended: Two of the Following: PSC 1010 - American National Government; ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of Macroeconomics; GEG 1000 - World Regional Geography
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - This requirement can be satisfied with any CHS course with Multicultural designation

## Chicano Studies Major: 24 credits

The Chicana/o Studies Department (CHS) adheres to the core values of social justice, human rights, empowerment, cultural responsiveness and service to community. Our teaching, scholarship

and mentoring are informed by liberatory theories and pedagogical practices articulated in the work of scholars such as Paolo Freire, bell hooks, Angela Valenzuela, who assume that the teacher is not all-knowing or neutral; the teacher shares their knowledge within their philosophical framework and both teachers and students have a vested interest in the reciprocal process of learning.

Our mission is to prepare and empower culturally responsive students to engage in critical thinking about the sociohistorical, multicultural, intersectional, and global contexts in which they live, learn and work; understand the changing demographics in US society; and to articulate and analyze public policy issues and implications grounded in the diverse experiences, expressions, social conditions of Chicano/a/x and Latino/a/x and Indigenous communities.

- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2000 - Living Culture and Language of the Mexican and Chicano **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3**
- CHS 3020 - Chicana/o History, 1836 to the Present **Credits: 3**
- CHS 3300 - Education of Chicano Children **Credits: 3**
- CHS 3460 - Chicana Feminisms **Credits: 3**
- CHS 4850 - Research Experience in Chicana/o Studies **Credits: 3**

Take one of the following courses:

- CHS 2500 - Borderland Studies: Variable Topics **Credits: 3**
- CHS 2600 - Chicana/o and Latina/o Religious Cultures **Credits: 3**
- CHS 3660 - Poverty, Race and Gender **Credits: 3**
- CHS 3800 - Topics in Chicano Studies **Credits: 3**

## Additional Social Science Courses for this Concentration: 33 credits

All students must complete thirty-three (33) credits of Social Science courses for this concentration. Note that twelve credits below can also satisfy General Studies requirements in these categories: Historical (3 credits), Natural and Physical Sciences (3 credits), Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

## Foundations and Strategies for Secondary

### Teaching: 34 credits

Many of the courses in this section of the degree program require admission to the MSU Denver School of Education. Please see a School of Education advisor or the MSU Denver School of Education website for details.

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1**
- MTH 1610 - Integrated Mathematics I **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

### Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Chicano Studies Major	24 credits
Additional Social Science Courses for this Concentration	33 credits

Foundations and Strategies for Secondary Teaching	34 credits
Senior Experience	12 credits
<b>Total for the Chicano Studies Major, B.A. with Concentration in Secondary Social Studies Licensure</b>	<b>121 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

### Chicano Studies Minor

A grade of "C" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

#### Required Courses:

- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3**
- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits: 3** (HON 3101, SWK 3110); (formerly The Chicano Community)
- CHS 3460 - Chicana Feminisms **Credits: 3** (formerly "La Chicana")

#### Electives\*: 9

Choose 9 credits from the other available courses housed in CHS in consultation with a Chicana/o Studies faculty advisor.

Total: 21

## Department of Communication Studies

### Communication Studies

- [Communication Studies Major, B.A.](#)
- [Communication Studies Minor](#)

Communication Studies is based on the understanding that communication itself is the primary, constitutive social process that explains all human experience in a diverse and technological world. Students are grounded in theoretical understanding of communication, engaged in practical application, and encouraged to develop communication competencies that can be applied in interpersonal, family, group, organizational, and community contexts.

*Strategic Relationship Maintenance* prepares students for work as human resource specialists, employee managers, public relations

specialists, personal relationship consultants, and is an excellent preparation for graduate studies in social science research programs.

*Organizational Communication* prepares students for work in consulting, training and conference planning. This concentration presents lucrative and satisfying careers to speech communication graduates. Job opportunities are available in education, government, business, and industry as well as private practice as a consultant.

*Rhetoric, Ethics, and Social Justice* graduates have succeeded in law, industrial and organizational communication, religious leadership, educational administration, and public relations.

A minor is required for students majoring in Communication Studies. Options include but are not limited to: linguistics, health professions, human services, management, marketing, psychology, public relations, and Spanish.

## Communication Studies Major, B.A.

[Department of Communication Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

Communication Studies majors develop the skills and abilities necessary to succeed in a wide variety of contexts - from professional life to personal relationships, personal growth to community building, to promoting diversity and yourself. The major is designed to allow students to chart their own course of study across personal, professional, and public contexts. Students have the option of selecting a formal concentration in *Professional and Organizational Communication* or *Rhetoric and Public Culture*. To effectively tailor the degree to your personal and professional goals, elective courses should be selected in consultation with a Communication Studies advisor.

### Student Outcomes

1. Articulate and advocate for communication as an orientation for evaluating and addressing issues and problems in personal, professional, and public contexts.
2. Develop and apply communication strategies appropriate to purpose, context, technology, and audience.
3. Communicate with excellence in oral, written, and/or visual modes.
4. Collaborate effectively with others in groups and teams.
5. Cultivate a critical awareness of diverse experiences and viewpoints in order to practice ethical communication.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Communication Studies Core: 21 credits

- COMM 1100 - Fundamentals of Oral Communication **Credits: 3**
- COMM 2200 - Introduction to Interpersonal Communication **Credits: 3**

*Two of the following four courses:*

- COMM 2030 - Intercultural Communication **Credits: 3**

- COMM 2040 - Team and Group Communication **Credits:** 3
- COMM 2300 - Introduction to Organizational Communication **Credits:** 3
- COMM 2400 - Introduction to Rhetoric and Popular Culture **Credits:** 3

*Each of the following three courses:*

- COMM 3000 - Diversity and Communication in the U.S. **Credits:** 3
- COMM 3100 - Communication Theory **Credits:** 3
- COMM 4100 - Communication Ethics **Credits:** 3

### Option One: Communication Studies Major without Concentration: 18 credits

Students may complete the Communication Studies major by taking a Research Course (3 credit hours) and five Elective Courses (15 credit hours) based on their own interests, goals, and aspirations. These elective courses should be selected in close consultation with a faculty advisor. Students must also complete a Capstone/Senior Experience Course (3 credit hours).

#### Research Course: 3 credits

*Select one of the following courses:*

- COMM 3110 - Applied Communication Research Methods **Credits:** 3
- COMM 3400 - Rhetorical Criticism **Credits:** 3

#### Elective Courses: 15 credits

*Choose any five courses from:*

- COMM 2010 - Gender and Communication **Credits:** 3
- COMM 2020 - Introduction to Health Communication **Credits:** 3
- COMM 2030 - Intercultural Communication **Credits:** 3
- COMM 2040 - Team and Group Communication **Credits:** 3
- Or any COMM course 3000-level and above

#### Capstone/Senior Experience: 3 credits

*Select one of the following three courses:*

- COMM 4910 - Applied Communication Research Project **Credits:** 3
- COMM 4920 - Senior Seminar **Credits:** 3
- COMM 4930 - Senior Communication Internship **Credits:** 3

### Option Two: Concentration in Professional and Organizational Communication: 18 credits

Students electing a Concentration in Professional and Organizational Communication must complete the Communication Studies Core and the following courses:

#### Research Course: 3 credits

- COMM 3110 - Applied Communication Research Methods **Credits:** 3

#### Concentration Courses: 9 credits

*Students must complete three of the following courses:*

- COMM 3010 - Business and Professional Speaking **Credits:** 3
- COMM 3030 - Group Communication and Collaboration **Credits:** 3
- COMM 3040 - Crisis Communication **Credits:** 3
- COMM 3310 - Communication Systems and Structures in Organizations **Credits:** 3
- COMM 3320 - Communication and Quality of Work/Life **Credits:** 3
- COMM 3330 - Organizational Culture and Identity **Credits:** 3
- COMM 3340 - Leadership Communication **Credits:** 3
- COMM 4310 - Decision Making **Credits:** 3
- COMM 4320 - Organizational Communication Consulting **Credits:** 3
- COMM 4330 - Organizational Learning and Development **Credits:** 3

#### Elective Courses: 6 credits

*Students must complete two courses from the following:*

- COMM 2010 - Gender and Communication **Credits:** 3
- COMM 2020 - Introduction to Health Communication **Credits:** 3
- COMM 2030 - Intercultural Communication **Credits:** 3
- COMM 2040 - Team and Group Communication **Credits:** 3
- Or any other COMM course at the 3000-level or above.

#### Capstone/Senior Experience: 3 credits

*Students must complete one of the following courses:*

- COMM 4910 - Applied Communication Research Project **Credits:** 3
- COMM 4920 - Senior Seminar **Credits:** 3

- COMM 4930 - Senior Communication Internship **Credits:** 3

### Option Three: Concentration in Rhetoric and Public Culture: 18 credits

Students electing a Concentration in Rhetoric and Public Culture must complete the Communication Studies Core and the following courses:

#### Research Course: 3 credits

- COMM 3400 - Rhetorical Criticism **Credits:** 3

#### Concentration Courses: 9 Credit Hours

*Students must complete three of the following courses:*

- COMM 3010 - Business and Professional Speaking **Credits:** 3
- COMM 3020 - Advanced Public Speaking **Credits:** 3
- COMM 3040 - Crisis Communication **Credits:** 3
- COMM 3410 - Rhetoric and Public Culture **Credits:** 3
- COMM 3420 - Arguing Constructively **Credits:** 3
- COMM 3430 - Communication in Politics **Credits:** 3
- COMM 4410 - Techniques of Persuasion **Credits:** 3
- COMM 4420 - Freedom of Speech **Credits:** 3
- COMM 4440 - Sports Discourse in Media and Culture **Credits:** 3
- COMM 4450 - Social Movement Rhetoric **Credits:** 3

#### Elective Courses: 6 credits

*Students must complete two courses from the following:*

- COMM 2010 - Gender and Communication **Credits:** 3
- COMM 2020 - Introduction to Health Communication **Credits:** 3
- COMM 2030 - Intercultural Communication **Credits:** 3
- COMM 2040 - Team and Group Communication **Credits:** 3
- Or any other COMM course at the 3000-level or above.

#### Capstone/Senior Experience: 3 credits

*Students must complete one of the following courses:*

- COMM 4910 - Applied Communication Research Project **Credits:** 3
- COMM 4920 - Senior Seminar **Credits:** 3
- COMM 4930 - Senior Communication Internship **Credits:** 3

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	21 credits
Concentration/Additional Courses	18 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	45-60 credits
<b>Total for the Communication Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Communication Studies Minor

Students seeking a Communication Studies Minor are required to take a minimum of 21 semester hours, 12 of which must be upper division. A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

Students must take COMM 1010 as their General Studies Oral Communication requirement. This course is required for all Communication Studies majors and minors but is not counted in the total hours required for the major or minor.

## Communication Studies Core (9 Credit Hours)

*All students must take:*

- COMM 1100 - Fundamentals of Oral Communication **Credits:** 3

*And two of the following three courses:*

- COMM 2200 - Introduction to Interpersonal Communication **Credits:** 3
- COMM 2300 - Introduction to Organizational Communication **Credits:** 3
- COMM 2400 - Introduction to Rhetoric and Popular Culture **Credits:** 3

## Electives (12 Credit Hours)

Choose any four COMM courses at the 3000-level or above.

## Department of Earth and Atmospheric Sciences

The Department of Earth and Atmospheric Sciences (EAS) is dedicated to delivering a high quality education in Applied Geology (GEL), Environmental Science (ENV), Geography (GEG),

Geographic Information Systems (GIS), and Meteorology (MTR). EAS also houses the introductory integrated science courses (SCI). With Colorado's diverse geography, geology, environments, and weather patterns, students are in an ideal place to study such fascinating subjects. The department educates the students of MSU Denver in a way that promotes science literacy, inspires lifelong learning and appreciation of the Earth system. Students who graduate with a degree from EAS are highly skilled and knowledgeable in their field.

## Applied Geology

- [Applied Geology Major, B.S.](#)
- [Geology Minor](#)

The mission of the Applied Geology program is to prepare students for entry into geoscience careers or graduate programs by providing access to critical content knowledge, applicable skills, and modes of thought. The objective of the program is to integrate a strong background in geology with applicable hands-on training through laboratory and fieldwork and interpretive data assessment. Geologists play an important role in identifying problems and finding solutions to an increased demand for energy and mineral resources, expansion of human activities into geologically hazardous areas, and other impacts to land, water, and air. Intimately involved in understanding geological processes of Earth, geologists are trained to investigate mountains, volcanoes, earthquakes, oceans, minerals, water, ancient life, oil, gas, precious metals, or even space. The Applied Geology degree (B.S.) combines coursework from multiple departments with a core of geology courses. This degree offers opportunities for national and international fieldwork, meaningful undergraduate research projects, and industry related internships.

## Environmental Science

- [Environmental Science Major, B.S.](#)
- [Environmental Science Major, B.S., with Secondary Science Teacher Licensure Concentration](#)
- [Environmental Science Minor](#)

Environmental Science is a discipline that will prepare students to understand --and help solve-- some of the most pressing challenges facing the world today. From sustainable growth and pollution control to learning about water problems and ecosystem degradation, students learn to analyze environmental challenges and find possible solutions. The Environmental Science degree explores ecological resiliency through a wide range of field, laboratory, and classroom courses on topics including, but not limited to, soil science, water resources and management, mountain environments, waste remediation, and geospatial sciences. Students tackle these environmental problems from the perspective of timely global challenges such as climate change and human population growth. This interdisciplinary major allows students to choose from a variety of courses to tailor a degree plan to their interests and keep them diversified in a constantly growing and changing field.

## Geography

- [Geography Major, B.A.](#)
- [Geography Minor](#)
- [Sustainability Studies Minor](#)
- [Climate Change Minor](#)

Geographers are among the government officials, community leaders, activists, researchers, and business people who use data-driven research to develop solutions to complex environmental, social, economic, and political problems. Geography is unique in bridging the social sciences and the natural sciences, and in providing geospatial analyses of environmental and socio-economic problems. The program provides a foundation for understanding problems and implementing equitable solutions to improve the quality of human-environment dynamics. Engagement in environmental, social justice and ethical issues is facilitated through applied research and learning in the Denver Metropolitan Area. The Geography curriculum combines fundamental courses in natural and social systems and geospatial science with specialized electives within four disciplinary sub-fields - Political Economy Approaches to Sustainability, Geographic Information Science, Physical Geography, and Planning. Students have flexibility in choosing courses and pursuing their areas of interest. The major prepares students for professional careers in both the private and public sectors as well as for graduate studies.

## Geographic Information Systems

- [Geographical Information Systems \(GIS\) Minor](#)
- [Geographic Information Systems \(GIS\) Certificate](#)

The Geographic Information Systems (GIS) emphasis in the Geography Program at MSU Denver provides students with the theoretical knowledge and technical training to become proficient in Geographic Information Systems (GIS), remote sensing, Global Positioning Systems (GPS), mapmaking and data management in order to define and solve problems in the real world. We offer a minor and certificate in GIS. Our Program includes a dedicated GIS open computer laboratory in addition to a GIS teaching lab, the latest software and devices for working with spatial data, and offers a wide range of classes to enable students to develop mastery in the discipline.

## Meteorology

- [Meteorology Major, B.S.](#)
  - Concentrations in Professional Meteorology and Applied Meteorology
- [Meteorology Minor](#)
- [Climate Change Minor](#)

The mission of the meteorology program is to provide students with an understanding of the chaotic atmosphere. Meteorology is an applied science that combines the fields of physics, chemistry, mathematics, and computer science into an application of understanding the atmosphere. The program exposes students to all these disciplines, while in parallel applying these hard science concepts to mesoscale, synoptic, and global scale phenomena. Students will be prepared for careers in a wide range of atmospheric science vocations, as well as further studies in graduate school. Students will be prepared to communicate forecasts verbally and in

written form using their own imagery, explain the reasoning for the forecast as well as the uncertainty and the reasons for uncertainty involved to a wide range of audiences. Students may pick from two concentrations. The Professional Meteorology concentration prepares students for careers with the National Weather Service or other government jobs by fulfilling their requirements. This concentration requires a math minor, needed for graduate studies in atmospheric science and related physical sciences. The Applied Meteorology concentration prepares students for a variety of other less math-intensive careers in meteorology, including some private industry, broadcasting, or other science-related careers. An advisor can help students choose the best concentration to fit their goals.

## Applied Geology Major, B.S.

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s):  
[In-Person](#)

### About the Program

The Applied Geology program is located on the Auraria campus in downtown Denver. The mission of the Applied Geology program is to prepare students for entry into geoscience careers or graduate programs by providing access to critical content knowledge, applicable skills, and modes of thought. The objective of the program is to integrate a strong background in geology with applicable hands-on training through laboratory and fieldwork and interpretive data assessment.

Geologists play an important role in identifying problems and finding solutions to an increased demand for energy and mineral resources, expansion of human activities into geologically hazardous areas, and other impacts to land, water, and air. Intimately involved in understanding geological processes of Earth, geologists are trained to investigate mountains, volcanoes, earthquakes, oceans, minerals, water, ancient life, oil, gas, precious metals, or even space. The Applied Geology degree (B.S.) combines coursework from multiple departments with a core of geology courses. This degree offers opportunities for national and international fieldwork, meaningful undergraduate research projects, and industry related internships.

### Goals of the Program

- To build student's knowledge base in geoscientific concepts, principles, and processes;
- To prepare and train students in field and laboratory technologies and techniques used in geoscientific investigation and interpretation;
- To develop competency in written and oral scientific communication and presentation;
- To construct habits of critical thinking and creative problem solving that lead to informed decision making, life-long learning, and leadership based on current scientific knowledge; and

- To prepare students for successful entry into career or graduate programs.

### Student Outcomes

Upon completion of this program, students will be able to:

- Identify and explain geoscientific concepts, principles, and processes.
- Apply appropriate field and laboratory geoscientific technologies and techniques.
- Demonstrate competency in scientific communication.
- Evaluate and interpret geoscientific information and data.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - Students may fulfill this requirement with MTH 1110 - College Algebra for Calculus or MTH 1210 - Introduction to Statistics, which are required for the Applied Geology Major, B.S.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - Students may fulfill this requirement by taking courses required for the Applied Geology Major, B.S. such as: PHY 2010 - College Physics I, CHE 1800 - General Chemistry I, CHE 1801 - General Chemistry I Laboratory, GEL 1010 - Physical Geology, GEL 1030 - Historical Geology, and/or GIS 1220 - Digital Earth: Geospatial Technologies.

- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

- GEL 4950 - Internship in Geology **Credits:** 2-15

## Elective Courses: 19 credits

### CHE and PHY Electives

Chemistry and Physics Electives: Students are required to select at least 5 hours from the list below.

- CHE 1810 - General Chemistry II **Credits:** 4 \*
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1 \*
- PHY 2020 - College Physics II **Credits:** 4 \*
- PHY 2030 - College Physics I Laboratory **Credits:** 1 \*
- PHY 2040 - College Physics II Laboratory **Credits:** 1 \*

### Applied Geology Electives

Students are required to select at least 14 additional elective credits. A minimum of 11 credits with a GEL prefix must be selected. While the following is a list of suitable recommendations, alternative electives may be approved in consultation with a faculty advisor. Each student must have a department advisor for consultation regarding course work and program planning.

- CET 3320 - Environmental Impact Statements **Credits:** 3 \*
- ENV 3540 - Advanced Geologic and Environmental Hazards-Denver and Vicinity **Credits:** 2 \*
- ENV 3700 - Mountain Environments **Credits:** 3 \*
- ENV 4000 - Geologic Hazards **Credits:** 3 \*
- ENV 4010 - Environmental Hazards and GIS **Credits:** 3 \*
- GEL 1020 - Geology of Colorado **Credits:** 3
- GEL 3420 - Soil Resources **Credits:** 3 \*
- GEL 3440 - Energy and Mineral Resources **Credits:** 4 \*
- GEL 3510 - Advanced Geology of Red Rocks Park and Vicinity **Credits:** 1 \*
- GEL 3520 - Advanced Garden of the Gods-Front Range Geology **Credits:** 2 \*
- GEL 3550 - Advanced Geology of the Great Sand Dunes National Monument **Credits:** 2 \*
- GEL 3920 - Directed Study in Geology **Credits:** 2-6 \*
- GEL 4050 - Igneous and Metamorphic Petrology **Credits:** 4 \*
- GEL 4150 - Hydrology (Surface Water) **Credits:** 4 \*
- GEL 4250 - Hydrogeology (Groundwater) **Credits:** 4 \*
- GIS 3250 - Cartography **Credits:** 3 \*
- GIS 4840 - Remote Sensing **Credits:** 3 \*
- GIS 4860 - GIS Applications **Credits:** 4 \*

### Senior Experience Course: 4 credits

Students are required to select at least 4 hours of senior experience credit.

- GEL 4970 - Undergraduate Research in Geology **Credits:** 4 \*

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Prerequisite Courses: 20 credits

All students must complete the following required prerequisite courses or equivalents. These courses can also count towards the General Studies Requirements.

- MTH 1110 - College Algebra for Calculus **Credits:** 4 <sup>1</sup>
- MTH 1210 - Introduction to Statistics **Credits:** 4 <sup>1</sup>
- MTH 1120 - College Trigonometry **Credits:** 3 \*
- PHY 2010 - College Physics I **Credits:** 4 <sup>2\*</sup>
- CHE 1800 - General Chemistry I **Credits:** 4 <sup>2\*</sup>
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1 <sup>2\*</sup>

## Recommended Prerequisite Course: 4 credits

- MTH 1410 - Calculus I **Credits:** 4 \*

## Required Courses: 38 credits

- GEL 1010 - Physical Geology **Credits:** 4
- GEL 1030 - Historical Geology **Credits:** 4
- GEL 2530 - Introduction to Geologic Fieldwork **Credits:** 2 \*
- GEL 3050 - Introduction to Mineralogy and Optical Mineralogy **Credits:** 4 \*
- GEL 4450 - Sedimentary Geology and Stratigraphy **Credits:** 4 \*
- GEL 4460 - Structural Geology and Mapping **Credits:** 4 \*
- GEL 3120 - Geomorphology **Credits:** 4 \*
- GEL 3530 - Field Geology: Variable Topics **Credits:** 2 \*
- GIS 1220 - Digital Earth: Geospatial Technologies **Credits:** 4
- GIS 2250 - Geographic Information Systems **Credits:** 4 \*

- Students are required to select at least 3 hours of internship credit:

Subtotal: 4 credits

Total: 18 credits

## Summary of Requirements

General Studies Requirement	33 credits <sup>3</sup>
Multicultural Requirement	0-3 credits
Additional Requirements	20 credits
Major Requirements	38 credits
Elective Courses	19 credits
Senior Experience	4 credits
Unrestricted Electives	3-15 credits
<b>Total for the Applied Geology Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

<sup>1</sup>Satisfies the General Studies Quantitative Literacy Requirement

<sup>2</sup>Satisfies the General Studies Natural and Physical Sciences Requirement

<sup>3</sup> 9 credits may count for general studies from other requirements

\*Course requires additional prerequisites or corequisites

## Climate Change Minor

Climate Change is one of the most relevant and pressing issues of our time. The Climate Change Minor creates an opportunity for students with any background to understand the science of climate change as well as some ways to plan for or mitigate the problem. The focus is on an understanding of climate change from an earth systems science perspective, though societal implications are also addressed.

## Required Courses

- MTR 1400 - Weather and Climate **Credits: 3**

or

- GEG 1100 - Introduction to Physical Geography **Credits: 3**

- MTR 1600 - Global Climate Change **Credits: 3**
- GEG 3410 - Biogeography **Credits: 3**
- MTR 3330 - Climatology **Credits: 3**
- MTR 3340 - Climate Change Science **Credits: 3**

- GEG 4700 - Sustainability in Resource Management **Credits: 3**

or

- GEG 4720 - Planning for Climate Change **Credits: 3**

## Environmental Science Major, B.S.

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Environmental Science is a discipline that will prepare students to understand - and help solve - some of the most pressing challenges facing the world today. From sustainable growth and pollution control to learning about water problems and ecosystem degradation, students learn to analyze environmental challenges and find possible solutions. The Environmental Science degree explores ecological resiliency through a wide range of field, laboratory, and classroom courses on topics including, but not limited to, soil science, water resources and management, mountain environments, waste remediation, and geospatial sciences. Students tackle these environmental problems from the perspective of timely global challenges such as climate change and human population growth. This interdisciplinary major allows students to choose from a variety of courses to tailor a degree plan to their interests and keep them diversified in a constantly growing and changing field.

## Student Outcomes

- Students will be able to identify and explain environmental processes and human - environment interactions.
- Students will be able to apply interdisciplinary perspectives and approaches to environmental problems.
- Students will be able to critically assess and evaluate environmental problems at a local and global scale.
- Students will be able to acquire the ability to monitor and sample environmental conditions.
- Students will be able to design effective oral presentations and scientific papers.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.

- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may use the required course MTH 1210 - Introduction to Statistics to fulfill this requirement.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Several General Studies courses are required for the Environmental Science major and those courses can also count here. Those courses include, ENV 1200 - Introduction to Environmental Science, BIO 1080 - General Biology I, BIO 1081 - General Biology II, BIO 1090 - General Biology Laboratory I, BIO 1091 - General Biology Laboratory II, CHE 1800 - General Chemistry I, CHE 1810 - General Chemistry II, CHE 1801 - General Chemistry I Laboratory, CHE 1811 - General Chemistry II Laboratory
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Additional Requirements: 22 credits

All students must complete the following courses:

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1091 - General Biology Laboratory II **Credits:** 1
- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1
- MTH 1410 - Calculus I **Credits:** 4

## Environmental Science Core Requirements: 27 credits

This list of courses is designed to expose students to each of the various aspects of Environmental Science.

- ENV 1200 - Introduction to Environmental Science **Credits:** 3
- ENV 2100 - Environmental Sampling and Analysis **Credits:** 3
- ENV 3420 - Soil Resources **Credits:** 3
- ENV 3422 - Methods of Soil Analysis and Sampling **Credits:** 1
- ENV 4200 - Environmental Policy and Planning **Credits:** 3
- MTH 1210 - Introduction to Statistics **Credits:** 4
- GIS 2250 - Geographic Information Systems **Credits:** 4

Students are required to take one ecosystem/ecology course from the following list:

- ENV 3300 - Principles of Ecological Restoration **Credits:** 3
- or-
- ENV 3700 - Mountain Environments **Credits:** 3
- or-
- ENV 4420 - Wetlands **Credits:** 3
- or-
- ENV 4440 - Limnology **Credits:** 3
- or-
- ENV 4450 - Stream Ecology **Credits:** 3

Students are required to take one waste/remediation course from the following list:

- ENV 3010 - Applied Pollution Science **Credits:** 3
- or-
- ENV 3710 - Environmental Remediation **Credits:** 3
- or-
- ENV 3720 - Waste Management **Credits:** 3

## Environmental Science Electives: 15 credits

Students are required to take 15 credits of Environmental Science Electives and can choose any upper division ENV course to satisfy this requirement. Before choosing electives, students should see an advisor to discuss particular courses and associated career paths. All courses must be passed with at least a C- to count towards degree completion. Directed Study and Internship credits may only be used towards 6 credits combined of elective credits.

- ENV 3000-4999 Any Upper Division ENV Course
- ENV 300X-499X Any Upper Division ENV Variable Topic or Omnibus Course

## Environmental Science Senior Experience: 3 credits

Students may choose one of the two following senior experience courses in Environmental Science.

- ENV 4960 - Global Environmental Challenges **Credits: 3**
- or-
- ENV 4970 - Environmental Field Studies **Credits: 3**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Additional Requirements	22 credits
Environmental Science Core	27 credits
Environmental Science Electives	15 credits
Environmental Science Senior Experience	3 credits
Optional Minor and/or Unrestricted Electives	17-29 credits
<b>Total for Environmental Science Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Environmental Science Major, B.S., with Secondary Science Teacher Licensure Concentration

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

Degree seeking candidates who wish to obtain Colorado Secondary Science teacher licensure with a major in Environmental Science must earn a Bachelor of Science (BS) degree. The interdisciplinary requirements for the Environmental Science major with a concentration in Secondary Science is designed to ensure that the Environmental Science education program meets the Colorado Science Licensure Standards and addresses the objectives of the Science content area examination. The core curriculum provides a firm foundation in Biology, Physics, Chemistry, Earth and Space Science, and Mathematics. The Colorado Academic Standards in Science are also strongly emphasized within the curriculum. Science Licensure candidates must declare their major with the appropriate concentration in Secondary Science Licensure.

## Student Outcomes

### Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching
- Teacher candidates will successfully complete student teaching

### Environmental Science Major B.S.

- Students will be able to identify and explain environmental processes and human - environment interactions.
- Students will be able to apply interdisciplinary perspectives and approaches to environmental problems.
- Students will be able to critically assess and evaluate environmental problems at a local and global scale.
- Students will be able to acquire the ability to monitor and sample environmental conditions.
- Students will be able to design effective oral presentations and scientific papers.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 122 semester hours are required for graduation in this program.
- This extended major does not require a minor.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree.

- A minimum GPA of 2.75 in the Environmental Science Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Those recommended courses below can satisfy additional degree program requirements beyond General Studies.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with MTH 1210 or MTH 1410 under Mathematics Courses for Secondary Science Licensure. (Note: depending on the course selected, this may exceed 3 credits.)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses or Environmental Science Core Courses for Secondary Science Licensure Concentration. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Methods Courses for Secondary Education. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Global Diversity (0-3 credits\*)

*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Environmental Science Major Core Courses: 46 credits

Below are major requirements for the Environmental Science Major with Teacher Licensure.

### Environmental Science Core

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 1091 - General Biology Laboratory II **Credits: 1**
- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- ENV 3400 - Water Resources **Credits: 3**
- ENV 4200 - Environmental Policy and Planning **Credits: 3**
- GEL 1010 - Physical Geology **Credits: 4**

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits: 3**
- or
- MTR 1600 - Global Climate Change **Credits: 3**

### Environmental Science Major Electives

- Students must take 12 credits of additional Environmental Science (ENV) courses, 3 credits of which may be Geology (GEL) courses, selected in consultation with an Environmental Science advisor.

Select 9 credits of ENV courses:

- ENV 2000-4999 ENV Electives

Select 3 credits of ENV or GEL courses:

- ENV 2000-4999 ENV Electives

or

- GEL 2000-4999 GEL Electives

## Additional Content Courses Required for Science Licensure: 18 credits

**Physics** (take all four of these courses):

- PHY 2010 - College Physics I **Credits: 4**
- PHY 2020 - College Physics II **Credits: 4**
- PHY 2030 - College Physics I Laboratory **Credits: 1**
- PHY 2040 - College Physics II Laboratory **Credits: 1**

**Math** (take both of the following courses):

- MTH 1210 - Introduction to Statistics **Credits: 4**

- MTH 1410 - Calculus I **Credits: 4**

## Foundation and Methods Courses for Secondary Education: 28 credits

All students must complete the following courses in Foundation and Methods Courses for Secondary Education. Before registering for these courses, students should obtain provisional admission to the School of Education. An application can be found [HERE](#). Six or more credits in this category can also satisfy General Studies requirements for Social and Behavioral Sciences. Three credits in this category can also satisfy Multicultural requirement.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1 \*\***
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3 \*\***
- SCI 3950 - Teaching Science in Secondary Schools **Credits: 3 \*\***
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits: 1 \*\***

*\* Requires at least provisional admission to the School of Education*

*\*\*Requires formal admission to the School of Education*

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Environmental Science Major Core Courses	46 credits
Additional Content Courses Required for Science Licensure	18 credits

Foundation and Methods Courses for Secondary Education	28 credits
Senior Experience	12 credits
<b>Total for the Environmental Science Major, B.S. with Secondary Science Teacher Licensure Concentration</b>	<b>122 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Environmental Science Minor

Environmental Science is a discipline that prepares you to understand - and help solve- some of the most pressing challenges facing the world today. From sustainable growth and pollution control to learning about water problems and ecosystem degradation, students learn to analyze environmental challenges and find possible solutions. The Environmental Science minor allows you to explore ecological resiliency through a wide range of field, laboratory, and classroom courses on topics including, but not limited to, soil science, water resources and management, mountain environments, waste remediation, and environmental policy. Students seeking an environmental science minor must complete a minimum of 22 semester hours.

## Required Courses

- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- ENV 2100 - Environmental Sampling and Analysis **Credits: 3**
- ENV 3420 - Soil Resources **Credits: 3**
- ENV 3422 - Methods of Soil Analysis and Sampling **Credits: 1**
- ENV 4200 - Environmental Policy and Planning **Credits: 3**

**Subtotal: 13 credits**

## Environmental Science Electives

Select at least 9 semester hours from any Environmental Science course.

- ENV 2000:4999: Any Environmental Sciences Course
- ENV 200X:499X: Any ENV Variable Topics Course

**Subtotal: 9 Credits**

**Total for Environmental Science Minor: 22 credits**

Note: All courses must be passed with a C- or better to count towards the minor.

## Geographic Information Systems (GIS) Certificate

The GIS certificate option serves working professionals and students interested in developing proficiency in Geospatial Sciences. GIS education has become an integral part of many academic disciplines and professions, including natural resources, environmental science, geography, geology, planning, anthropology, civil engineering, criminal justice, business, biology, health sciences, social sciences, and others. In order to develop a high-level of proficiency, the GIS course requirements for the GIS Certificate are similar to those of the Geospatial Sciences Majors. Students must complete each course in a certificate program with a grade of "C" or better; students must also maintain a GPA of 3.0 or above in the GIS certificate program. Students should consult with a department advisor to prepare a program plan.

### Required Courses (4 credits)

- GIS 2250 - Geographic Information Systems **Credits: 4**

### GIS Required Block 1 (6 credits)

Select two (2) courses from the following list:

- GIS 3250 - Cartography **Credits: 3**
- GIS 3410 - Web Mapping **Credits: 3**
- GIS 4840 - Remote Sensing **Credits: 3**
- GIS 4870 - Spatial Databases **Credits: 3**

### GIS Required Block 2 (4 credits)

Select one (1) course from the following list:

- GIS 4850 - Spatial Modeling in Raster **Credits: 4**
- GIS 4860 - GIS Applications **Credits: 4**

### Elective Courses

- Select 3 credit hours from any upper division GIS course
- GIS 3000-4999 Upper Division GIS Course

### GIS Certificate Total Credits

Required Course GIS 2250	4 credits
GIS Block 1	6 credits
GIS Block 2	4 credits
Additional Elective Courses*	3 credits
<b>Total for GIS Certificate</b>	<b>17 credits</b>

## Geographical Information Systems (GIS) Minor

The GIS Minor gives students an opportunity to develop skills in geospatial data development, analysis, and visualization that can be applied to myriad disciplines where location data is important to decision-making. Many disciplines dealing with people, resources, planning, and design benefit from an understanding of spatial data. Students must complete each course with a grade of "C-" or better.

### GIS Required Course (4 credits)

- GIS 2250 - Geographic Information Systems **Credits: 4**

Total Credits: 4

### GIS Required Block 1 (6 credits)

Select two (2) courses from the list:

- GIS 3250 - Cartography **Credits: 3**
- GIS 3410 - Web Mapping **Credits: 3**
- GIS 4840 - Remote Sensing **Credits: 3**
- GIS 4870 - Spatial Databases **Credits: 3**

Total Credits: 6

### GIS Required Block 2 (4 credits)

Select one (1) course from the following list:

- GIS 4850 - Spatial Modeling in Raster **Credits: 4**
- GIS 4860 - GIS Applications **Credits: 4**

Total Credits: 4

### Elective Courses (6 credits)

Select 6 credits from the following list:

- GIS 1220 - Digital Earth: Geospatial Technologies Credits: 4
- GIS 3000-4999 GIS Upper Division Courses
- GEG 3000-4999 Geography Upper Division Courses

Total Credits: 6

### Credit Totals for GIS Minor

Required Course GIS 2250	4 credits
GIS Block 1	6 credits

GIS Block 2	4 credits
Additional Elective Courses*	6 credits
Total for GIS Minor	20 credits

\* NOTE: Directed Study and Internship classes are limited towards the minor. GIS 3920 - Directed Study in Geospatial Sciences and GEG 3920 - Directed Study in Geography cannot count more than 3 credits towards the minor. GIS 4950 - Internship in GIS and GEG 4950 - Internship in Geography cannot count more than 3 credits towards the minor.

## Geography Major, B.A.

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

Geographers are among the government officials, community leaders, activists, researchers, and business people who use data-driven research to develop solutions to complex environmental, social, economic, and political problems. Geography is unique in bridging the social sciences and the natural sciences, and in providing geospatial analyses of environmental and socio-economic problems. The program provides a foundation for understanding problems and implementing equitable solutions to improve the quality of human-environment dynamics. Engagement in environmental, social justice and ethical issues is facilitated through applied research and learning in the Denver Metropolitan Area. The Geography curriculum combines fundamental courses in natural and social systems and geospatial science with specialized electives within four disciplinary sub-fields - Political Economy Approaches to Sustainability, Geographic Information Science, Physical Geography, and Planning. Students have flexibility in choosing courses and pursuing their areas of interest. The major prepares students for professional careers in both the private and public sectors as well as for graduate studies.

## Student Outcomes

- Examine the relationships between human and physical systems.
- Demonstrate competency in both writing and oral presentation of geographic information.
- Evaluate geographical information for its appropriateness for practical uses, such as decision-making and problem solving.
- Select and apply analytic tools to examine spatial issues, problems, and conflicts.
- Design, plan, and evaluate solutions for complex multi-dimensional geographical problems.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. Any minor may be chosen.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** For students interested in upper division coursework or graduate study in Geographic Information Science or Physical Geography: MTH 1110 - College Algebra for Calculus, or the equivalent ( MTH 1109 - College Algebra Stretch, Part II or MTH 1111 - College Algebra for Calculus with Laboratory), or a higher algebra course.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking GEG 1100 - Introduction to Physical Geography and GEG 1910 - Global Water Concerns. While both courses will count for General Studies, only one is required (and will count) for the Geography major.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking GEG 1000 - World Regional Geography, GEG 1300 - Introduction to Human Geography, and/or GEG 1700 - Principles of Sustainability. While two courses will count for General Studies, only one is required (and will count) for the Geography major.
- Global Diversity (0 or 3 credits\*\*)
  - **Recommended:** Students may fulfill this requirement by taking GEG 1000 - World Regional Geography, GEG 1300 - Introduction to

Human Geography, GEG 1910 - Global Water Concerns, or GEG 3230 - Latin American Geographies, which also may count for the major.

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. .
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
- **Recommended:** Students may fulfill this requirement by taking GEG 2700 - Geographies of Environmental Justice (which does not count towards the major), or GEG 3300 - Indigenous Geographies of North America (which is an approved elective within the major).

### Recommended Prerequisite Courses

For students interested in upper division coursework or graduate study in Geographic Information Science or Physical Geography: At least one algebra course ( MTH 1110 - College Algebra for Calculus or higher) and one statistics course ( MTH 1210 - Introduction to Statistics or higher) are recommended. Students are encouraged to meet with an advisor to discuss upper division course prerequisites, optional courses, minors, and electives which support their interests.

### Required Courses: 13 credits

Students should select one course from each area listed below. These courses provide an introduction to the main sub-fields of Geography, and methods of geographic inquiry. Four courses are required. All courses must be passed with at least a "C-" to count towards the major.

#### Cultural/Human Geography: 3 credits

- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1300 - Introduction to Human Geography **Credits: 3**
- GEG 1700 - Principles of Sustainability **Credits: 3**

#### Physical Geography: 3 credits

- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3**

### Geographic Information Science: 4 credits

- GIS 2250 - Geographic Information Systems **Credits: 4**

### Theory and Research Methods: 3 credits

- GEG 3100 - Geography Methods and Applications **Credits: 3**

### Geography Electives: 24 credits

Students are required to select a minimum of 24 credits of elective courses in Geography (GEG) or Geographic Information Science (GIS) from any of the core geographical knowledge areas listed below. Students may take courses from multiple areas towards the major. At least 22 credits must be from upper division courses (3000- and 4000-level). All courses must be passed with at least a "C-" to count towards the major.

#### 1. Political Economy Approaches to Sustainability

Courses integrate physical and social sciences with planning and spatial analysis as a foundation for understanding problems and implementing solutions to improve the quality of the built environment, economics, and policies to promote sustainability and social justice.

- GEG 3300 - Indigenous Geographies of North America **Credits: 3**
- GEG 3360 - Economic Geography **Credits: 3**
- GEG 3700 - Urban Sustainability **Credits: 3**
- GEG 3720 - Global Sustainable Development **Credits: 3**
- GEG 4700 - Sustainability in Resource Management **Credits: 3**
- GEG 4720 - Planning for Climate Change **Credits: 3**

#### 2. Geographic Information Science

Courses develop theoretical knowledge and technical training in Geographic Information Systems, remote sensing, cartography and database systems in order to define and solve problems in the management, conservation, and improvement of natural and human environments.

- GIS 1220 - Digital Earth: Geospatial Technologies **Credits: 4**
- GIS 3250 - Cartography **Credits: 3**
- GIS 3410 - Web Mapping **Credits: 3**
- GIS 4810 - GIS Programming **Credits: 3**
- GIS 4840 - Remote Sensing **Credits: 3**
- GIS 4850 - Spatial Modeling in Raster **Credits: 4**
- GIS 4860 - GIS Applications **Credits: 4**
- GIS 4870 - Spatial Databases **Credits: 3**
- GIS 3000-4999 Any UD Geographic Information Science course

#### 3. Physical Geography

Courses examine natural processes and phenomena at the Earth surface, and their connections with human activities.

- GEG 3120 - Geomorphology **Credits: 4**
- GEG 3330 - Climatology **Credits: 3**
- GEG 3410 - Biogeography **Credits: 3**
- GEG 3420 - Soil Resources **Credits: 3**
- GEG 3422 - Methods of Soil Analysis and Sampling **Credits: 1**
- GEG 4150 - Hydrology (Surface Water) **Credits: 4**

#### 4. Urban and Regional Processes and Planning

Courses provide students with the skills to address the social, economic, environmental, and spatial relationships that shape urban regions.

- GEG 3600 - Urban Geography **Credits: 3**
- GEG 3610 - Principles of Land Use Planning **Credits: 3**
- GEG 3630 - Transportation Planning and Land Use **Credits: 3**
- GEG 4430 - Habitat Planning **Credits: 3**
- GEG 4610 - Urban and Regional Planning **Credits: 3**

#### 5. Independent Research and Individualized Experience

This core area allows students to pursue individual interests via directed study or internship experiences, and to explore additional coursework in Geography, as opportunities arise.

- GEG 3920 - Directed Study in Geography **Credits: 2-6**  
\*Maximum of 3 credits can count towards the major.
- GEG 4950 - Internship in Geography **Credits: 2-15**  
\*Maximum of 3 credits can count towards the major.
- GEG 3000-4999 Any UD Geography Course

#### Senior Experience: 3 credits

All Geography majors are required to take the Geography capstone course, which culminates the degree by providing an opportunity for hands-on geographic inquiry. This course must be passed with at least a "C-" to count towards the major.

- GEG 4975 - Geography Capstone **Credits: 3**

#### Summary of Geography Major Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	13 credits
Geography Electives	24 credits
Minor and Unrestricted Electives	43-47 credits
Senior Experience Course	3 credits
Total for Geography Major, B.A.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

#### Geography Minor

Geographers are among the government officials, community leaders, activists, researchers, and business people who use data-driven research to develop solutions to complex environmental, social, economic, and political problems. Geography is unique in bridging the social sciences and the natural sciences, and in providing geospatial analyses of environmental and socio-economic problems. The program provides a foundation for understanding problems and implementing equitable solutions to improve the quality of human-environment dynamics. The Geography Minor combines fundamental courses in natural and social systems and geospatial science with specialized electives within four disciplinary sub-fields – Political Economy Approaches to Sustainability, Geographic Information Science, Physical Geography, and Planning. Students have flexibility in choosing courses and pursuing their areas of interest. Students must complete each course with a grade of "C-" or better.

#### Required Courses

Students are required to complete two courses, each from a different course area listed below. These courses provide an introduction to the main sub-fields of Geography, and methods of geographic inquiry. Two courses are required. (6-7 credits minimum). All courses must be passed with at least a "C-" to count towards the minor.

#### Cultural Human Geography

- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1300 - Introduction to Human Geography **Credits: 3**
- GEG 1700 - Principles of Sustainability **Credits: 3**

#### Physical Geography

- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- GEG 1910 - Global Water Concerns **Credits: 3**

#### Geographic Information Science

- GIS 2250 - Geographic Information Systems **Credits: 4**

#### Theory and Methods of Geography

- GEG 3100 - Geography Methods and Applications **Credits: 3**

#### Elective Courses

Students are required to select a minimum of 14-15 credits of elective courses in Geography (GEG) or Geographic Information Science (GIS) from any of the core geographical knowledge areas listed below. Students may take courses from multiple areas towards the minor. All courses must be passed with at least a "C-" to count towards the minor.

### 1. Political Economy Approaches to Sustainability

Courses integrate physical and social sciences with planning and spatial analysis as a foundation for understanding problems and implementing solutions to improve the quality of the built environment, economics, and policies to promote sustainability and social justice.

- GEG 3300 - Indigenous Geographies of North America **Credits: 3**
- GEG 3360 - Economic Geography **Credits: 3**
- GEG 3700 - Urban Sustainability **Credits: 3**
- GEG 3720 - Global Sustainable Development **Credits: 3**
- GEG 4700 - Sustainability in Resource Management **Credits: 3**
- GEG 4720 - Planning for Climate Change **Credits: 3**

### 2. Geographic Information Science

Courses develop theoretical knowledge and technical training in Geographic Information Systems, remote sensing, cartography and database systems in order to define and solve problems in the management, conservation, and improvement of natural and human environments.

- GIS 1220 - Digital Earth: Geospatial Technologies **Credits: 4**
- GIS 3250 - Cartography **Credits: 3**
- GIS 3410 - Web Mapping **Credits: 3**
- GIS 4810 - GIS Programming **Credits: 3**
- GIS 4840 - Remote Sensing **Credits: 3**
- GIS 4850 - Spatial Modeling in Raster **Credits: 4**
- GIS 4860 - GIS Applications **Credits: 4**
- GIS 4870 - Spatial Databases **Credits: 3**
- GIS 300-4999 Any UD Geographic Information Science class

### 3. Physical Geography

Courses examine natural processes and phenomena at the Earth surface, and their connections with human activities.

- GEG 3410 - Biogeography **Credits: 3**
- GEL 3120 - Geomorphology **Credits: 4**
- GEG 3330 - Climatology **Credits: 3**
- GEG 3420 - Soil Resources **Credits: 3**
- GEG 3422 - Methods of Soil Analysis and Sampling **Credits: 1**
- GEG 4150 - Hydrology (Surface Water) **Credits: 4**

### 4. Urban and Regional Processes and Planning

Courses provide students with the skills to address the social, economic, and spatial relationships that shape urban regions.

- GEG 3600 - Urban Geography **Credits: 3**
- GEG 3610 - Principles of Land Use Planning **Credits: 3**
- GEG 3630 - Transportation Planning and Land Use **Credits: 3**
- GEG 4430 - Habitat Planning **Credits: 3**
- GEG 4610 - Urban and Regional Planning **Credits: 3**

### 5. Independent Research and Individualized Experience

This core area allows students to pursue individual interests via directed study or internship experiences, and to explore additional coursework in Geography, as opportunities arise.

- GEG 3920 - Directed Study in Geography **Credits: 2-6**  
\*Maximum of 3 credits can count towards the minor.
- GEG 4950 - Internship in Geography **Credits: 2-15**  
\*Maximum of 3 credits can count towards the minor.
- GEG 4975 - Geography Capstone **Credits: 3**
- GEG 3000-4999 Any UD Geography Course

### Summary of Geography Minor Requirements

Required Courses	6-7 credits
Geography Electives	14-15 credits
<b>Total for Geography Minor</b>	<b>20-22 credits</b>

### Geology Minor

Geology is a particularly integrative field because in order to understand Earth's physical processes, the vast network of interconnections within the Earth system must also be considered. As a consequence, geology incorporates ideas and perspectives from many different fields such as chemistry, physics, biology, astronomy, water science, environmental science, mathematics, art, and more. These many connections make geology an appropriate and fascinating minor for students with any major. The geology minor offers a strong foundation for understanding how Earth has developed and changed through time. Students should consult with a department advisor to assist with program planning. Students must complete each course with a grade of "C-" or better.

### Core Courses

- GEL 1010 - Physical Geology **Credits: 4**
- GEL 1030 - Historical Geology **Credits: 4**
- GEL 3050 - Introduction to Mineralogy and Optical Mineralogy **Credits: 4 \***

- GEL 4450 - Sedimentary Geology and Stratigraphy **Credits:** 4 \*
- GEL 4460 - Structural Geology and Mapping **Credits:** 4 \*

**Subtotal: 20 credits**

## Elective Courses

Students are required to select at least 4 semester hours from the list below.

- GEL 1020 - Geology of Colorado **Credits:** 3
- GEL 2530 - Introduction to Geologic Fieldwork **Credits:** 2 \*
- GEL 3120 - Geomorphology **Credits:** 4 \*
- GEL 3420 - Soil Resources **Credits:** 3 \*
- GEL 3440 - Energy and Mineral Resources **Credits:** 4 \*
- GEL 3510 - Advanced Geology of Red Rocks Park and Vicinity **Credits:** 1 \*
- GEL 3520 - Advanced Garden of the Gods-Front Range Geology **Credits:** 2 \*
- GEL 3530 - Field Geology: Variable Topics **Credits:** 2 \*
- GEL 3550 - Advanced Geology of the Great Sand Dunes National Monument **Credits:** 2 \*
- GEL 3920 - Directed Study in Geology **Credits:** 2-6 \*
- GEL 4050 - Igneous and Metamorphic Petrology **Credits:** 4 \*
- GEL 4150 - Hydrology (Surface Water) **Credits:** 4 \*
- GEL 4250 - Hydrogeology (Groundwater) **Credits:** 4 \*
- ENV 3540 - Advanced Geologic and Environmental Hazards-Denver and Vicinity **Credits:** 2 \*
- ENV 3700 - Mountain Environments **Credits:** 3 \*
- ENV 4000 - Geologic Hazards **Credits:** 3 \*
- ENV 4010 - Environmental Hazards and GIS **Credits:** 3 \*

**Subtotal: 4 credits**

**Total for Minor: 24 credits**

\* *Course requires additional prerequisites or corequisites*

## Meteorology Major, B.S.

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The mission of the meteorology program is to provide students with an understanding of the chaotic atmosphere. Meteorology is an applied science that combines the fields of physics, chemistry,

mathematics, and computer science into an application of understanding the atmosphere. The program exposes students to all these disciplines, while in parallel applying these hard science concepts to mesoscale, synoptic, and global scale phenomena. Students will be prepared for careers in a wide range of atmospheric science vocations, as well as further studies in graduate school. Students will be prepared to communicate forecasts verbally and in written form using their own imagery, explain the reasoning for the forecast as well as the uncertainty and the reasons for uncertainty involved to a wide range of audiences. Students may pick from two concentrations. The Professional Meteorology concentration prepares students for careers with the National Weather Service or other government jobs by fulfilling their requirements. This concentration requires a math minor, needed for graduate studies in atmospheric science and related physical sciences. The Applied Meteorology concentration prepares students for a variety of other less math-intensive careers in meteorology, including some private industry, broadcasting, or other science-related careers. An advisor can help students choose the best concentration to fit their goals.

## Student Outcomes

- Describe the general characteristics of the atmosphere, including physical processes and weather systems.
- Select and interpret appropriate weather and climate data, including in-situ and remotely sensed information, for different situations.
- Synthesize multiple types of weather and climate data to formulate short, medium, and long-range weather forecasts.
- Organize, analyze, and prepare written scientific reports.
- Create and deliver scientific presentations using multimedia techniques.
- Apply mathematical and statistical techniques to the analysis and interpretation of atmospheric dynamics, thermodynamics, and radiation processes.
- Apply scientific computing skills using appropriate software and structured programming.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

A total of 120 semester hours are required for graduation.

- A grade of D or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

- A Mathematics minor is required for the Professional Meteorology Concentration, but not the Applied Meteorology Concentration. See below.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this requirement with MTH 1410 - Calculus I, or by taking any of the prerequisite courses that lead to MTH 1410
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement by taking courses required for the meteorology major such as MTR 1400 - Weather and Climate and the physics courses required for the major.
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

## Meteorology Core Required Courses: 23 credits

Students in both concentrations must take the following courses.

- MTR 1400 - Weather and Climate **Credits:** 3
- MTR 2020 - Weather and Climate Lab for Scientists **Credits:** 1
- MTR 2040 - Computer Applications for Meteorology **Credits:** 1
- MTR 2410 - Weather Observing Systems **Credits:** 3
- MTR 3330 - Climatology **Credits:** 3
- MTR 3400 - Synoptic Meteorology **Credits:** 3
- MTR 3410 - Weather Analysis Techniques **Credits:** 3
- MTR 3420 - Radar and Satellite Meteorology **Credits:** 3
- MTR 3430 - Atmospheric Thermodynamics **Credits:** 3

Select one of the following two concentrations:

## Professional Meteorology Concentration: 23 credits

- MTR 3440 - Physical Meteorology **Credits:** 3
- MTR 3450 - Dynamic Meteorology **Credits:** 3
- MTR 4400 - Advanced Synoptic Meteorology **Credits:** 4
- MTR 4500 - Mesometeorology **Credits:** 3
- CHE 1800 - General Chemistry I **Credits:** 4
- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1
- PHY 2341 - General Physics II Laboratory **Credits:** 1

## Professional Meteorology Concentration Electives: 5 credits

Students choose 5 credits from the list below:

- MTR 2000-4999 (any MTR prefix course in the 2000-level or higher may count towards these elective credits)
- GIS 2250 - Geographic Information Systems Credits: 4

## Required Mathematics Minor: 24 credits

- MTH 1410 - Calculus I **Credits:** 4
- CS 1050 - Computer Science 1 **Credits:** 4

or

- MTH 2520 - R Programming **Credits:** 4

or

- MTH 2540 - Scientific Computing with Python **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4
- MTH 2420 - Calculus III **Credits:** 4
- MTH 3210 - Probability and Statistics **Credits:** 4
- MTH 3420 - Differential Equations **Credits:** 4

## Applied Meteorology Concentration: 20 credits

- MTH 1210 - Introduction to Statistics **Credits:** 4

or

- MTH 3210 - Probability and Statistics **Credits:** 4

- MTH 1410 - Calculus I **Credits:** 4

- CS 1050 - Computer Science 1 **Credits:** 4

or

- GIS 2250 - Geographic Information Systems **Credits: 4**

or

- MTH 2520 - R Programming **Credits: 4**

or

- MTH 2540 - Scientific Computing with Python **Credits: 4**

- MTR 3500 - Hazardous Weather **Credits: 3**

- PHY 2010 - College Physics I **Credits: 4**

or

- PHY 2311 - General Physics I **Credits: 4**

- PHY 2030 - College Physics I Laboratory **Credits: 1**

or

- PHY 2321 - General Physics I Laboratory **Credits: 1**

## Applied Meteorology Concentration Electives: 12 credits

Students choose 12 credits from the list below:

- ENV 3700 - Mountain Environments **Credits: 3**
- ENV 4470 - Snow Hydrology **Credits: 3**
- GEG 3410 - Biogeography **Credits: 3**
- GEL 4150 - Hydrology (Surface Water) **Credits: 4**
- GIS 2250 - Geographic Information Systems **Credits: 4** (If this course is taken for the computer course, the credits cannot also be counted here.)
- MTR 2000-4999 (any MTR prefix course in the 2000-level or higher may count towards these elective credits)

## Senior Experience: 3 credits

- MTR 4600 - Meteorology Research Seminar **Credits: 3**

## Summary of Requirements

<u>Professional Meteorology Concentration</u>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Meteorology Required Core Courses	23 credits
Concentration Required Courses	23 credits
Concentration Electives	5 credits
Required Mathematics Minor	24 credits
Senior Experience	3 credits

Unrestricted Electives	6-18 credits
<b>Total for the Meteorology Major B.S. with Professional Meteorology Concentration</b>	<b>120 credits</b>
<u>Applied Meteorology Concentration</u>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Meteorology Required Core Courses	23 credits
Concentration Required Courses	20 credits
Concentration Electives	12 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	26-38 credits
<b>Total for the Meteorology Major B.S with Applied Meteorology Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Meteorology Minor

The mission of the meteorology program is to provide students with an understanding of the chaotic atmosphere. Meteorology is an applied science that combines the fields of physics, chemistry, mathematics, and computer science into an application of understanding the atmosphere. The program exposes students to all of these disciplines, while in parallel applying these hard science concepts to mesoscale, synoptic, and global scale phenomena. Students will be prepared Upon graduation, students are ready for careers in a wide range of atmospheric science vocations, as well as further studies in graduate school. Students will be In addition, students are prepared to communicate forecasts verbally and in written form using their own imagery, explain the reasoning for the forecast as well as the uncertainty and the reasons for uncertainty involved to a wide range of audiences.

A grade of "D" or better is required for courses in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

## Required Courses

- MTR 1400 - Weather and Climate **Credits: 3**
- MTR 2020 - Weather and Climate Lab for Scientists **Credits: 1**
- MTR 3400 - Synoptic Meteorology **Credits: 3**
- Approved Electives selected from courses below

**Subtotal: 7 credits**

## Approved Electives\*

- MTR 1600 - Global Climate Change **Credits: 3**
- MTR 2410 - Weather Observing Systems **Credits: 3**
- MTR 3100 - Air Pollution **Credits: 3**
- MTR 3330 - Climatology **Credits: 3**
- MTR 3410 - Weather Analysis Techniques **Credits: 3**
- MTR 3420 - Radar and Satellite Meteorology **Credits: 3**
- MTR 3500 - Hazardous Weather **Credits: 3**
- MTR 3710 - Meteorology Internship **Credits: 1-6**
- MTR 4210 - Forecasting Laboratory **Credits: 1**

**Subtotal: 12 credits**

**Total for Minor: 19 credits**

*\*Some calculus-based courses are also available.*

## Sustainability Studies Minor

There is an increased need for professionals versed in issues and practices of sustainable development. This Sustainability Studies Minor is designed for students seeking to develop sustainability competencies to broaden their career opportunities in both the private and public sectors. The minor provides students the analytical and conceptual framework of sustainability and provides practical tools for strengthening professional practice. The curriculum considers sustainability with respect to water, resources, energy, and development. Faculty from the Department of Earth and Atmospheric Sciences teach the core courses that review the ecological, economic, and social equity dimensions of sustainability. The minor can be integrated with different fields such as economics, sociology, political science, management, business, tourism, education, engineering technology, and a variety of other interrelated fields where professional opportunities exist in sustainability. Students must complete each course with a grade of "C-" or better.

## Required Courses

Students are required to select at least 12 semester hours from the list below.

- GEG 1300 - Introduction to Human Geography **Credits: 3**
- GEG 3360 - Economic Geography **Credits: 3 \***
- GEG 3600 - Urban Geography **Credits: 3 \***
- GEG 3610 - Principles of Land Use Planning **Credits: 3 \***
- GEG 3700 - Urban Sustainability **Credits: 3 \***
- GEG 3720 - Global Sustainable Development **Credits: 3 \***

**Subtotal: 12 credits**

## Elective Courses

Students are required to select at least 9 semester hours from the list below.

- GEG 3920 - Directed Study in Geography **Credits: 2-6 \***
- GEG 4700 - Sustainability in Resource Management **Credits: 3 \***
- GEG 4720 - Planning for Climate Change **Credits: 3 \***
- GEG 4950 - Internship in Geography **Credits: 2-15 \***
- GEG 4970 - Sustainability Practice Seminar **Credits: 3 \***
- ENV 1200 - Introduction to Environmental Science **Credits: 3 \***
- ENV 3100 - Air Pollution **Credits: 3 \***
- ENV 3250 - Colorado Water Law and Water Rights Administration **Credits: 3 \***
- ENV 3400 - Water Resources **Credits: 3 \***
- ENV 3540 - Advanced Geologic and Environmental Hazards-Denver and Vicinity **Credits: 2 \***
- ENV 3620 - Population, Resources, and Land Use **Credits: 3 \***
- ENV 3700 - Mountain Environments **Credits: 3 \***
- ENV 3730 - Environmental Risk Assessment **Credits: 3 \***
- ENV 4010 - Environmental Hazards and GIS **Credits: 3 \***
- ENV 4400 - Landscape Ecology **Credits: 3 \***
- ENV 4410 - Water Law **Credits: 3 \***
- ENV 4420 - Wetlands **Credits: 3 \***
- ENV 4430 - Habitat Planning **Credits: 3 \***
- ENV 4910 - Global Environmental Field Problems: Variable Topics **Credits: 3 \***
- ENV 4920 - Topics in Environmental Science: Variable Topics **Credits: 3 \***
- ENV 4950 - Internship in Environmental Science **Credits: 2-15 \***
- ENV 4960 - Global Environmental Challenges **Credits: 3 \***
- GIS 1220 - Digital Earth: Geospatial Technologies **Credits: 4**
- GIS 2250 - Geographic Information Systems **Credits: 4 \***
- CET 3320 - Environmental Impact Statements **Credits: 3 \***
- ECO 3450 - Environmental Economics **Credits: 3 \***
- SOC 3750 - Social Change **Credits: 3 \***
- SOC 3770 - Society and the Environment **Credits: 3 \***

**Subtotal: 9 credits**

**Total for Minor: 21 credits**

*\* Course requires additional prerequisites or corequisites*

## Department of English

### Academic Programs

- [English Major, B.A.](#)
- [English Minor](#)
- [English Major, B.A. with Secondary English Teacher Licensure Concentration](#)
- [Linguistics Major, B.A.](#)

- [Linguistics Minor](#)
- [Film and Media Studies Minor](#)
- [Rhetoric, Composition, and Professional Writing Minor](#)

## Role and Mission

Department of English faculty share a heritage in which language, writing, literature, and the art of teaching are valued as cornerstones of a liberal education. Representing distinct specializations, we form a community of readers and writers who pursue the study of humane letters for both aesthetic and practical reasons. The English Department provides students from across the University with courses that fulfill the General Studies requirements in Written Communication. The department also teaches literature and linguistics courses that meet the General Studies requirement in Arts and Humanities. Thus, in keeping with the liberal arts tradition of general education, the department promotes both the basic intellectual skills of critical reading and writing and the kind of understanding of the human condition that comes from the experience and appreciation of literature.

Our mission is inclusive and student-centered, reflecting the variety of disciplines housed within our department and our commitment to honoring the diversity of our student body. We recognize the wide variety of roles our students fulfill in their daily lives, and we are committed to providing them with a meaningful and relevant educational experience. Accordingly, our mission is to:

- prepare our students effectively for further education or the careers of their choice;
- affirm the diverse nature of our students through inclusive excellence in our pedagogy and curriculum;
- maintain and develop programs consistent with our teaching and research expertise in the broader Denver community in order to engage with and serve our community;
- encourage and support the research, creative productions, and publications of our faculty members to provide a richer classroom experience, including opportunities for students to participate in faculty research projects; and
- support and encourage excellent and innovative teaching by all our faculty;
- work with faculty in other departments, colleagues in other institutions, and the administration to continue to provide the best learning experience for our students.

The English Department offers instruction in literature, writing, language and linguistics, rhetoric and professional writing, and in secondary English education. Courses in each area appeal to students in every school of the University who wish to read and understand representative literatures of the world, to examine the principles underlying how language works, and to cultivate their writing skills.

The department invites students in other disciplines to select English courses to enhance their general education. Students may also choose an English major or minor from areas listed below.

Students who are considering a major or minor in the English Department are expected to consult with faculty for advising.

Students in the secondary licensure program should consult with advisors in the appropriate education department as well.

The English major may choose a concentration in one of the following:

- open major (no concentration)
- literature
- writing
- secondary school teaching, leading to licensure

The English minor may choose a concentration in one of the following:

- rhetoric, composition and professional studies
- literature
- writing
- film and media studies

The Linguistics major is a single track major and does not require a concentration to be declared.

The Linguistics minor may choose a concentration in one of the following:

- linguistics-linguistics
- linguistics-language

The English Department assesses the major in designated Senior Experience courses. Portfolios of papers assigned through these courses will be read by members of the faculty. Senior Experience courses should not be taken until the student's final year of study. Because these courses may not be offered every semester, students should discuss scheduling with English department advisors.

To receive credit for any ENG or LING prefix course, the student must receive a grade of "C-" or better.

## English Major, B.A.

[Department of English](#)  
[College of Letters, Arts and Sciences](#)

Available Program Format(s): [Online](#),  
[In-Person](#), [Hybrid](#)

## About the Program

For students majoring in English, the program provides a foundation in literature, language, writing, visual literacy, and teaching. Thus students' command of written language, their ability to analyze concepts, and their broad understanding of human nature and social realities will enable them to be competitive in a variety of fields, including education, business, and civil service or, with appropriate graduate work, in professions such as law and higher education.

The English Major may choose to declare no concentration, or the English Major may choose to declare a concentration in one of the following:

- literature, film and media studies
- writing
- secondary school teaching, leading to licensure

The literature, film and media studies concentration encompasses a range of American, British, and World literatures and film media; students examine how written texts and visual narrative media record the complex interactions between particular people and cultures in history. The curriculum explores major periods, movements, issues, forms, and innovations, as well as a large number of important authors and filmmakers of diverse backgrounds. Through the analysis of textual production in various forms and from various critical perspectives, students develop the critical skills to negotiate texts in contexts, in order better to engage with writing, with analytical tasks, and with life in the world. Because of their command of the written language and visual literacy, and their ability to deal with ideas and concepts as well as facts, English majors concentrating in literature, film and media studies are valued in many fields, including academe, law, and business.

The writing concentration major provides extensive study, practice, and opportunity for performance in various modes and genres of writing as well as a foundation in the appreciation of the literary heritage in English. The program immerses students in reading, writing, and language and helps prepare them for graduate school or vocation while clearly placing them in the tradition of the liberal arts.

The secondary English teacher licensure concentration, offered in conjunction with the School of Education, prepares degree seeking, future secondary teachers of English to understand and teach the diverse subject matter required for licensure. This program equips students with a wide variety of language principles and skills; practical experience in developing and teaching the processes of writing; sound knowledge of approaches to literature and literary genres; periods and authors (including a special focus on young adult literature); and an understanding of communication and media as used in English studies. In addition to meeting specified state and departmental requirements, this program offers students the opportunity to develop further specialization in writing, language, or literature to complement the major. The major provides student with a background in the Colorado Academic Standards for English and prepares them to pass the required content exam for licensure. This extended major does not require a minor.

Students who are considering a major in the English Department are expected to consult with faculty for advising. Students in elementary or secondary licensure programs should consult with advisors in the School of Education as well.

## Student Outcomes

With completion of any of the concentrations in the English Major, students should be able to do the following:

- Produce polished writing in a variety of genres appropriate to audience and purpose

- Understand how language is used, and the factors accounting for variation in language use
- Identify and use appropriate methods in their research, assess their sources, and cite all sources professionally
- Analyze texts appropriate to the discipline, with an understanding of the ways in which texts can reflect or shape historical and cultural contexts.
- Apply appropriate disciplinary criticism or theory
- Examine diverse perspectives among the world-views, power structures, and experiences of individuals, groups, communities, and/or cultures, in historical and contemporary contexts, specifically through the lenses of race and ethnicity, global perspectives, and/or sexual and gender identities.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- To receive major or minor credit for any ENG or LING prefix course or courses in the teacher licensure program, the student must receive a grade of "C-" or better.
- A minor is required for the major without concentration, the Literature, Film and Media Studies, and Writing concentrations in this program. A minor is not required for the Secondary English Teacher Licensure concentration.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## English Major (No Concentration): 45 credits

### Required Courses

#### Entry Course: 3 credits

- ENG 2000 - Introduction to Textual Studies **Credits: 3**

#### Writing Course: 3 credits

Select one of the following:

- ENG 2500 - Introduction to Creative Writing **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3527 - Professional Writing **Credits: 3**

#### Linguistics Course: 3 credits

Select one of the following:

- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

#### Diversity Courses: 9 credits

Select one from each of the following three categories:

#### Multiethnic Diversity: 3 credits

Select one of the following:

- ENG 2410 - Survey of Chicana/o Literature **Credits: 3**
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits: 3**
- ENG 3480 - The Chicano Novel **Credits: 3**

- ENG 3670 - Social Change and Writing Centers **Credits: 3**
- ENG 4114 - Multi-Ethnic Women's Literature **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**
- ENG 4116 - Harlem Renaissance **Credits: 3**
- ENG 4138 - Toni Morrison **Credits: 3**
- ENG 4633 - Spike Lee **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**
- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**

#### Gender and Sexual Diversity: 3 credits

Select one of the following:

- ENG 3360 - LGBT Literature **Credits: 3**
- ENG 3435 - Sexuality and Gender in Ancient Greek and Roman Literature **Credits: 3**
- ENG 3621 - Gender Theory **Credits: 3**
- ENG 3725 - Studies in Cinema: Gender in Mainstream American Film **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**
- ENG 4131 - Jane Austen **Credits: 3**
- ENG 4134 - Margaret Atwood **Credits: 3**
- ENG 4135 - Sylvia Plath **Credits: 3**
- ENG 4138 - Toni Morrison **Credits: 3**

#### Global Diversity: 3 credits

Select one of the following:

- ENG 2150 - Legends of Troy **Credits: 3**
- ENG 2850 - International Film **Credits: 3**
- ENG 3370 - Contemporary World Literature **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3**
- ENG 3430 - Classical Mythology **Credits: 3**
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3721 - Cinema of India **Credits: 3**
- ENG 4137 - Chinua Achebe **Credits: 3**
- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3040 - Morphology and Syntax **Credits: 3**
- LING 3044 - Phonetics **Credits: 3**
- LING 3045 - Phonology **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4060 - Modern Language Theory **Credits: 3**

#### English Literature Elective: 3 credits

Select three semester hours of 2000-level or above English Literature electives in consultation with an advisor.

- ENG 2150 - Legends of Troy **Credits: 3**
- ENG 2210 - American Literature: Beginnings through the Civil War **Credits: 3**

- ENG 2220 - American Literature: Civil War to Present **Credits: 3**
- ENG 2240 - Introduction to Native American Literature **Credits: 3**
- ENG 2270 - Monsters and Monstrosity **Credits: 3**
- ENG 2310 - British Literature: Beginnings to the late 1700s **Credits: 3**
- ENG 2330 - British Literature: Late 1700s to the Present **Credits: 3**
- ENG 2340 - Shakespeare and Popular Culture **Credits: 3**
- ENG 2410 - Survey of Chicana/o Literature **Credits: 3**
- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**
- ENG 3112 - Studies in Early World Literature **Credits: 3**
- ENG 3113 - Studies in Later Anglophone Literature **Credits: 3**
- ENG 3114 - Studies in Later World Literature **Credits: 3**
- ENG 3120 - Literature and Film: Variable Topics **Credits: 3**
- ENG 3130 - Literary Genre: Novel **Credits: 3**
- ENG 3140 - Literary Genre: Poetry **Credits: 3**
- ENG 3160 - Literary Genre: Drama **Credits: 3**
- ENG 3180 - Literary Genre: Narrative **Credits: 3**
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3242 - Contemporary Native American Literature **Credits: 3**
- ENG 3250 - Black Women Writers **Credits: 3**
- ENG 3350 - Essential Shakespeare **Credits: 3**
- ENG 3360 - LGBT Literature **Credits: 3**
- ENG 3370 - Contemporary World Literature **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3**
- ENG 3430 - Classical Mythology **Credits: 3**
- ENG 3435 - Sexuality and Gender in Ancient Greek and Roman Literature **Credits: 3**
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3461 - Analyzing Children's Literature **Credits: 3**
- ENG 3470 - Young Adult Literature **Credits: 3**
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits: 3**
- ENG 3480 - The Chicano Novel **Credits: 3**
- ENG 3610 - Theories of Literature **Credits: 3**
- ENG 3620 - Perspectives in Literary Criticism: Variable Topics **Credits: 3**
- ENG 3621 - Gender Theory **Credits: 3**
- ENG 4110 - Advanced Studies in Literature: Variable Topics **Credits: 3**
- ENG 4114 - Multi-Ethnic Women's Literature **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**
- ENG 4116 - Harlem Renaissance **Credits: 3**
- ENG 4130 - Major Authors: Variable Topics **Credits: 3**

## English Electives: 21 credits

- Select 6 semester hours of English electives at the 2000-level or above in consultation with an advisor.

- Select 15 semester hours of English electives at the 3000-level or above in consultation with an advisor.

## Senior Experience: 3 credits

- ENG 4500 - Senior Project **Credits: 3**

## Literature, Film and Media Studies

### Concentration: 45 credits

The literature, film and media studies concentration encompasses a range of American, British, and World literatures and film media; students examine how written texts and visual narrative media record the complex interactions between particular people and cultures in history. The curriculum explores major periods, movements, issues, forms, and innovations, as well as a large number of important authors and filmmakers of diverse backgrounds. Through the analysis of textual production in various forms and from various critical perspectives, students develop the critical skills to negotiate texts in contexts, in order better to engage with writing, with analytical tasks, and with life in the world. Because of their command of the written language and visual literacy, and their ability to deal with ideas and concepts as well as facts, English majors concentrating in literature, film and media studies are valued in many fields, including academe, law, and business.

### Required Courses: 6 credits

Entry courses:

- ENG 2000 - Introduction to Textual Studies **Credits: 3**
- ENG 2860 - Introduction to Film and Media Studies **Credits: 3**

### Additional Requirements

In satisfying the requirements below, or as electives, students must take at least 2 Literature courses and 2 Film and Media Studies courses. Literature courses: ENG 2150-2460, 3100-3480, 3610-3621, 4110-4138; Film and Media Studies courses: ENG 2810, 2850, 3711-375X, 4630-4633, 4670. ENG 3120 courses, Literature and Film: Variable Topics, can be counted as either Literature or Film and Media Studies. Students must also take a minimum of 9 courses at 3000-level or above.

### History I (Early Literature): 3 credits

Select one of the following:

- ENG 2210 - American Literature: Beginnings through the Civil War **Credits: 3**
- ENG 2310 - British Literature: Beginnings to the late 1700s **Credits: 3**
- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**

- ENG 3111 - Studies in Early Anglophone Literature **Credits: 3**
- ENG 3112 - Studies in Early World Literature **Credits: 3**

## History II (Later Literature and Film): 3 credits

Select one of the following:

- ENG 2220 - American Literature: Civil War to Present **Credits: 3**
- ENG 2330 - British Literature: Late 1700s to the Present **Credits: 3**
- ENG 3113 - Studies in Later Anglophone Literature **Credits: 3**
- ENG 3114 - Studies in Later World Literature **Credits: 3**
- ENG 3711 - History of Film I **Credits: 3**
- ENG 3712 - History of Film II **Credits: 3**

## Theory: 3 credits

Select one of the following:

- ENG 3610 - Theories of Literature **Credits: 3**
- ENG 3620 - Perspectives in Literary Criticism: Variable Topics **Credits: 3**
- ENG 3621 - Gender Theory **Credits: 3**
- ENG 4670 - Cinema Theory and Criticism **Credits: 3**

## Topics: 3 credits

Select one of the following:

- ENG 2150 - Legends of Troy **Credits: 3**
- ENG 2270 - Monsters and Monstrosity **Credits: 3**
- ENG 2340 - Shakespeare and Popular Culture **Credits: 3**
- ENG 2810 - Vampire Films **Credits: 3**
- ENG 3120 - Literature and Film: Variable Topics **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3**
- ENG 3430 - Classical Mythology **Credits: 3**
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3620 - Perspectives in Literary Criticism: Variable Topics **Credits: 3**
- ENG 3720 - Film and Media Studies Topics: Variable Topic **Credits: 3**
- ENG 4110 - Advanced Studies in Literature: Variable Topics **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**

## Genres: 3 credits

Select one of the following:

- ENG 3130 - Literary Genre: Novel **Credits: 3**

- ENG 3140 - Literary Genre: Poetry **Credits: 3**
  - ENG 3160 - Literary Genre: Drama **Credits: 3**
  - ENG 3180 - Literary Genre: Narrative **Credits: 3**
  - ENG 3461 - Analyzing Children's Literature **Credits: 3**
  - ENG 3470 - Young Adult Literature **Credits: 3**
  - ENG 3480 - The Chicano Novel **Credits: 3**
  - ENG 3750 - Cinema Genre: Variable Topics **Credits: 3**
  - ENG 4110 - Advanced Studies in Literature: Variable Topics **Credits: 3**
- The following specific topics under this course:
- ENG 411J The Graphic Novel **Credits: 3**
  - ENG 411T American Gothic Literature **Credits: 3**
  - ENG 411V Mystery **Credits: 3**

## Authors and Auteurs: 3 credits

Select one of the following:

- ENG 2410 - Survey of Chicana/o Literature **Credits: 3**
- ENG 2450 - Contemporary Women's Literature **Credits: 3**
- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3242 - Contemporary Native American Literature **Credits: 3**
- ENG 3250 - Black Women Writers **Credits: 3**
- ENG 3350 - Essential Shakespeare **Credits: 3**
- ENG 3360 - LGBT Literature **Credits: 3**
- ENG 3480 - The Chicano Novel **Credits: 3**
- ENG 3722 - Native American Cinema **Credits: 3**
- ENG 3770 - Multicultural Cinema **Credits: 3**
- ENG 4114 - Multi-Ethnic Women's Literature **Credits: 3**
- ENG 4116 - Harlem Renaissance **Credits: 3**
- ENG 4130 - Major Authors: Variable Topics **Credits: 3**
- ENG 4131 - Jane Austen **Credits: 3**
- ENG 4134 - Margaret Atwood **Credits: 3**
- ENG 4135 - Sylvia Plath **Credits: 3**
- ENG 4137 - Chinua Achebe **Credits: 3**
- ENG 4138 - Toni Morrison **Credits: 3**
- ENG 4630 - Cinema Director: Variable Topics **Credits: 3**
- ENG 4633 - Spike Lee **Credits: 3**

## Diversity Courses (Literature and Film): 6 credits

Select two of the following:

- ENG 2150 - Legends of Troy **Credits: 3**
- ENG 2410 - Survey of Chicana/o Literature **Credits: 3**
- ENG 2450 - Contemporary Women's Literature **Credits: 3**
- ENG 2850 - International Film **Credits: 3**
- ENG 3112 - Studies in Early World Literature **Credits: 3**
- ENG 3114 - Studies in Later World Literature **Credits: 3**
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3250 - Black Women Writers **Credits: 3**

- ENG 3360 - LGBT Literature **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3**
- ENG 3430 - Classical Mythology **Credits: 3**
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3435 - Sexuality and Gender in Ancient Greek and Roman Literature **Credits: 3**
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits: 3**
- ENG 3480 - The Chicano Novel **Credits: 3**
- ENG 3621 - Gender Theory **Credits: 3**
- ENG 3721 - Cinema of India **Credits: 3**
- ENG 3722 - Native American Cinema **Credits: 3**
- ENG 3725 - Studies in Cinema: Gender in Mainstream American Film **Credits: 3**
- ENG 3770 - Multicultural Cinema **Credits: 3**
- ENG 4114 - Multi-Ethnic Women's Literature **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**
- ENG 4116 - Harlem Renaissance **Credits: 3**
- ENG 4131 - Jane Austen **Credits: 3**
- ENG 4134 - Margaret Atwood **Credits: 3**
- ENG 4135 - Sylvia Plath **Credits: 3**
- ENG 4137 - Chinua Achebe **Credits: 3**
- ENG 4138 - Toni Morrison **Credits: 3**
- ENG 4633 - Spike Lee **Credits: 3**

### Linguistics Course: 3 credits

Select one of the following:

- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

### English Elective: 9 credits

- Select 9 semester hours of 2000-level or above English (ENG-prefix) electives in consultation with an advisor.

### Senior Experience: 3 credits

- ENG 4500 - Senior Project **Credits: 3**

### Secondary English Teacher Licensure Concentration:

Please visit the English Major, B.A. with Secondary English Teacher Licensure Concentration program page for the details of this concentration

### Writing Concentration: 45 credits

The writing concentration major provides extensive study, practice, and opportunity for performance in various modes and genres of writing as well as a foundation in the appreciation of the literary heritage in English. The program immerses students in reading, writing, and language and helps prepare them for graduate school or vocation while clearly placing them in the tradition of the liberal arts.

### Literature Courses: 18 credits

#### Lower-Division Literature Courses: 9 credits

2000-Level, including ENG 2000 : 9 credits

#### Upper-Division Literature Courses: 9 credits

3000-Level or 4000-Level, including either ENG 3100 or ENG 3440: 9 credits

### Language and Linguistics Course: 3 credits

Select one of the following, in consultation with a faculty advisor:

- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

### Writing Course: 3 credits

- ENG 2500 - Introduction to Creative Writing **Credits: 3**

### Writing Electives (select four): 12 credits

- ENG 3501 - Studies in Rhetoric and Writing: Style **Credits: 3**
- ENG 3503 - Rhetoric and Visual Literacy **Credits: 3**
- ENG 3505 - Concepts of Authorship **Credits: 3**
- ENG 3506 - Academic Editing and Composing **Credits: 3**
- ENG 3507 - Writing Reviews and Criticism **Credits: 3**
- ENG 3510 - Composition Studies: Theories and Practice **Credits: 3**
- ENG 3521 - Poetry Writing Workshop **Credits: 3**
- ENG 3522 - Fiction Writing Workshop **Credits: 3**
- ENG 3523 - Drama Writing Workshop **Credits: 3**
- ENG 3524 - Creative Nonfiction Writing Workshop **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3670 - Social Change and Writing Centers **Credits: 3**
- ENG 3980 - Internship in English **Credits: 1-15**
- JMP 2610 - Introduction to Technical Writing **Credits: 3**

### Specialized Writing Courses: 6 credits

- ENG 3820 - Writing Studio: Variable Topics **Credits: 3 \***  
*\*must be repeated for credit under two distinct titles*

## Senior Experience: 3 credits

- ENG 4520 - Senior Project: Writing **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Selected Concentration	45 credits
Senior Experience	counted in concentration
Minor and Unrestricted Electives	39-51 credits
<b>Total for the English Major, B.A.</b>	<b>120 credits</b>
<i>Note: Secondary Education Licensure Totals on that program page</i>	

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## English Major, B.A. with Secondary English Teacher Licensure Concentration

[Department of English](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [Online](#),  
[In-Person](#), [Hybrid](#)

## About the Program

Candidates seeking an undergraduate degree and licensure in English will major in English with a concentration in Secondary English Teacher Licensure. This concentration, offered in conjunction with the School of Education, prepares degree seeking, future secondary teachers of English to understand and teach the diverse subject matter required for licensure. This program equips students with a wide variety of language principles and skills; practical experience in developing and teaching the processes of writing; sound knowledge of approaches to literature and literary genres; periods and authors (including a special focus on young adult literature); and an understanding of communication and media as used in English studies. In addition to meeting specified state and departmental requirements, this program offers students the opportunity to develop further specialization in writing, language, or literature to complement the major. The major provides student with a background in the Colorado Academic Standards for English and prepares them to pass the required content exam for licensure.

## Student Outcomes

## Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching
- Teacher candidates will successfully complete student teaching

## English Major B.A.

- Students can produce polished writing in a variety of genres appropriate to audience and purpose
- Understand how language is used, and the factors accounting for variation in language use
- Students identify and use appropriate methods in their research, assess their sources, and cite all sources professionally
- A student can analyze texts appropriate to the discipline, with an understanding of the ways in which texts can reflect or shape historical and cultural contexts.
- Students can apply appropriate disciplinary criticism or theory
- Examine diverse perspectives among the world-views, power structures, and experiences of individuals, groups, communities, and/or cultures, in historical and contemporary contexts, specifically through the lenses of race and ethnicity, global perspectives, and/or sexual and gender identities.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. If pursuing licensure, students must minor in Secondary Education through the School of Education.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### English Major: 46 credits

#### Literature Core: 21 credits

- ENG 2000 - Introduction to Textual Studies **Credits: 3**  
or
- ENG 2100 - Introduction to Literary Studies **Credits: 3**
- ENG 2210 - American Literature: Beginnings through the Civil War **Credits: 3**  
or
- ENG 2220 - American Literature: Civil War to Present **Credits: 3**
- ENG 2330 - British Literature: Late 1700s to the Present **Credits: 3**
- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**  
or
- ENG 4130 - Major Authors: Variable Topics **Credits: 3**  
\* ONLY ENG 413R Early Shakespeare OR ENG 413S Later Shakespeare
- ENG 3430 - Classical Mythology **Credits: 3**  
or
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3470 - Young Adult Literature **Credits: 3**
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits: 3**

### Language Core: 3 credits

- LING 3011 - Analyzing English **Credits: 3**

### Composition Core: 3 credits

Students will take one of the following:

- ENG 3510 - Composition Studies: Theories and Practice **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3527 - Professional Writing **Credits: 3**

### Linguistics Course: 3 credits

Students will take one of the following:

- LING 3020 - History of the English Language **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

### Teaching English Core: 10 credits

- ENG 4600 - Teaching Literature, Communication, and Visual Literacy, 7-12 **Credits: 3**
- ENG 4620 - Teaching Composition, 7-12 **Credits: 3**
- ENG 4640 - Teaching English, 7-12 **Credits: 3 \*\***
- ENG 4641 - Field Experience in Teaching English in Secondary Schools **Credits: 1 \*\***

### Upper-Level Electives: 6 credits

Two upper-division English courses, at least one of which must be a literature course, selected in consultation with and approved by a designated English advisor.

### Foundation and Methods for Secondary Education: 24 credits

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***

- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12 \*\*

Note:

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
English Major Courses	46 credits
Foundation and Methods for Secondary Education	24 credits
Senior Experience	12 credits
Minor and Unrestricted Electives	2-17 credits
<b>Total for the English Major, B.A. with Secondary English Teacher Licensure Concentration</b>	<b>120 credits</b>

**Any General Studies course may count in multiple categories, however, credits for courses may only count once towards the 120 credit degree total. It is therefore important that you work with your advisor to make sure you are meeting requirements for your degree.**

## English Minor

For students minoring in English, the program provides a foundation in literature, language, and writing.

The English minor may choose a concentration in one of the following:

- literature
- writing

Students who are considering a minor in the English Department are expected to consult with faculty for advising.

To receive credit for any ENG prefix course, the student must receive a grade of "C-" or better. Students should note that programs differ in the minimum grade required.

## Literature Concentration

The English minor, literature concentration, encompasses a range of American, British, and world literature. The program provides a strong foundation of courses in literature and language, sequenced to

cultivate a sense of literary development, and fosters an increasing familiarity with major works and writers, critical theory, literary terminology, and research materials. Because of their command of the written language, their ability to deal with ideas and concepts as well as facts, and their broader understanding of human nature and social realities, literature majors are valued in many fields, including academe, the law, and the world of business.

## Entry Course

- ENG 2000 - Introduction to Textual Studies **Credits:** 3

**Subtotal: 3 credits**

## Literary History

Select two of the following:

- ENG 2210 - American Literature: Beginnings through the Civil War **Credits:** 3
- ENG 2220 - American Literature: Civil War to Present **Credits:** 3
- ENG 2310 - British Literature: Beginnings to the late 1700s **Credits:** 3
- ENG 2330 - British Literature: Late 1700s to the Present **Credits:** 3

**Subtotal: 6 credits**

## Global Literatures

Select one of the following:

- ENG 2150 - Legends of Troy **Credits:** 3
- ENG 3112 - Studies in Early World Literature **Credits:** 3
- ENG 3114 - Studies in Later World Literature **Credits:** 3
- ENG 3370 - Contemporary World Literature **Credits:** 3
- ENG 3420 - The English Bible as Literature **Credits:** 3
- ENG 3430 - Classical Mythology **Credits:** 3
- ENG 3440 - Myth and Literature **Credits:** 3
- ENG 4137 - Chinua Achebe **Credits:** 3

**Subtotal: 3 credits**

## Diversity in Literatures Course

Select one of the following:

- ENG 2410 - Survey of Chicana/o Literature **Credits:** 3
- ENG 3240 - African American Literature **Credits:** 3
- ENG 3360 - LGBT Literature **Credits:** 3
- ENG 3435 - Sexuality and Gender in Ancient Greek and Roman Literature **Credits:** 3
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits:** 3

- ENG 3480 - The Chicano Novel **Credits: 3**
- ENG 3621 - Gender Theory **Credits: 3**
- ENG 4114 - Multi-Ethnic Women's Literature **Credits: 3**
- ENG 4115 - Hip-Hop and Literature **Credits: 3**
- ENG 4116 - Harlem Renaissance **Credits: 3**
- ENG 4131 - Jane Austen **Credits: 3**
- ENG 4134 - Margaret Atwood **Credits: 3**
- ENG 4135 - Sylvia Plath **Credits: 3**
- ENG 4138 - Toni Morrison **Credits: 3**

**Subtotal: 3 credits**

## English Electives

Select 3 semester hours of 3000-level or above English (ENG-prefix) electives in consultation with an advisor.

**Subtotal: 3 credits**

## English Literature Electives

Select 6 upper-division semester hours of English Literature electives in consultation with an advisor.

- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**
- ENG 3111 - Studies in Early Anglophone Literature **Credits: 3**
- ENG 3112 - Studies in Early World Literature **Credits: 3**
- ENG 3113 - Studies in Later Anglophone Literature **Credits: 3**
- ENG 3114 - Studies in Later World Literature **Credits: 3**
- ENG 3120 - Literature and Film: Variable Topics **Credits: 3**
- ENG 3130 - Literary Genre: Novel **Credits: 3**
- ENG 3140 - Literary Genre: Poetry **Credits: 3**
- ENG 3160 - Literary Genre: Drama **Credits: 3**
- ENG 3180 - Literary Genre: Narrative **Credits: 3**
- ENG 3240 - African American Literature **Credits: 3**
- ENG 3360 - LGBT Literature **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3**
- ENG 3430 - Classical Mythology **Credits: 3**
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3461 - Analyzing Children's Literature **Credits: 3**
- ENG 3470 - Young Adult Literature **Credits: 3**
- ENG 4110 - Advanced Studies in Literature: Variable Topics **Credits: 3**
- ENG 4130 - Major Authors: Variable Topics **Credits: 3**

**Subtotal: 6 credits**

**Total for Minor: 24 credits**

## Writing Concentration:

The writing concentration minor provides study, practice, and opportunity for performance in various modes and genres of writing as well as a foundation in the appreciation of the literary heritage in English. The program involves students in reading, writing, and language, and helps prepare them for graduate school or vocation, while clearly placing them in the tradition of the liberal arts. Students must meet with a writing faculty advisor in order to understand prerequisites and select proper courses.

## Literature Courses:

### Entry Course:

- ENG 2000 - Introduction to Textual Studies **Credits: 3**

### Lower-Division Literature Courses:

Select one literature course the 2000-level

### Upper-Division Literature Course:

Select one literature course at the 3000-Level or 4000-Level

**Subtotal: 9**

## Language and Linguistics Course:

Select one, in consultation with a faculty advisor, from department's offerings.

*Semester Hours of Language and Linguistics Required: 3*

- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

### Entry Writing Course:

- ENG 2500 - Introduction to Creative Writing **Credits: 3**

**Subtotal: 3**

## Writing Electives (select three):

- ENG 3501 - Studies in Rhetoric and Writing: Style **Credits: 3**
- ENG 3503 - Rhetoric and Visual Literacy **Credits: 3**
- ENG 3505 - Concepts of Authorship **Credits: 3**
- ENG 3506 - Academic Editing and Composing **Credits: 3**
- ENG 3507 - Writing Reviews and Criticism **Credits: 3**

- ENG 3510 - Composition Studies: Theories and Practice **Credits: 3**
- ENG 3521 - Poetry Writing Workshop **Credits: 3**
- ENG 3522 - Fiction Writing Workshop **Credits: 3**
- ENG 3523 - Drama Writing Workshop **Credits: 3**
- ENG 3524 - Creative Nonfiction Writing Workshop **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3670 - Social Change and Writing Centers **Credits: 3**
- ENG 3820 - Writing Studio: Variable Topics **Credits: 3**
- ENG 3980 - Internship in English **Credits: 1-15**
- JMP 2610 - Introduction to Technical Writing **Credits: 3**

Subtotal: 9

Semester Hours of Writing Required: 12

Total Semester Hours Required: 24

## Film and Media Studies Minor

Students learn to think and write critically about film and media as significant forms of culture. Courses taken to meet a requirement for this minor may not also be counted toward a major. To receive credit for any ENG prefix course, the student must receive a grade of C- or better.

A minor in Film and Media Studies consists of eight courses: an introduction to film and media studies, two courses on film and media history, four courses on particular film and media topics in context, and a culmination course.

### Required Courses

- ENG 2860 - Introduction to Film and Media Studies

#### Two courses on the history of cinema:

- ENG 3711 - History of Film I
- ENG 3712 - History of Film II

**Three different variations of courses on cinema in context. Students are required to take one course from each of the following categories and then one additional course from any category:**

- ENG 3720 - Film and Media Studies Topics: Variable Topic
  - ARTH 3780 - Cinema as Visual Art
  - SPA 3600 - Latin American Cinema
  - ENG 372A - Cinema of India
  - ENG 372C - Shakespeare on Film
  - Other variable topics course with ENG 372-prefix

and

- ENG 3750 - Cinema Genre: Variable Topics
  - ENG 375B - Westerns

- ENG 375E - Science Fiction
- ENG 375F - Documentary
- ENG 375G - *Film Noir*
- Other variable topics course with ENG 375-prefix

and

- ENG 4630 - Cinema Director: Variable Topics
  - ENG 463A - Alfred Hitchcock
  - ENG 463E - Federico Fellini
  - ENG 463F - Stanley Kubrick
  - Other variable topics course with ENG 463-prefix

#### Culmination Course (required):

- ENG 4670 - Cinema Theory and Criticism

## Total Semester Hours Required: 24

## Linguistics Major, B.A.

[Department of English](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Linguistics program is an interdisciplinary study of human language. The core of the Linguistics major is the study and analysis of language structure (phonetics, phonology, morphology, syntax, and semantics) focusing not only on the structure of English but also that of other languages.

In addition to completing the core courses that focus on general linguistics, students must complete two semesters of a single modern language of their choice, at or above the 2000-level, as well as explore the various ways in which language is related to human beings and human experience.

The Linguistics major is designed to help students gain knowledge about language and its significance in society, to aid students in critical thinking, and to prepare them for a world of linguistic diversity. This major is excellent for students who are planning careers in business, law, education, or writing. The major also prepares students for graduate programs in linguistics or a particular linguistics subfield, such as anthropological linguistics, socio-linguistics, psycholinguistics, computational linguistics, modern or classical languages, or ESL.

### Student Outcomes

- A student demonstrates the ability to transcribe and analyze speech sounds.
- A student can identify and explain the principles of synchronic language variation and/or diachronic language change.

- A student demonstrates the ability to perform morphosyntactic and/or semantic analysis.
- A student can integrate the relevant information found in textbooks and research materials into one's own written work.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- No single course in the Linguistics program may be used to fulfill more than one requirement within the major (general studies and multicultural courses not included).
- To receive credit for any ENG or LING prefix course, the student must receive a grade of "C-" or better. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Core Courses: 12 credits

- LING 2010 - Introduction to Linguistics **Credits: 3**
- LING 3040 - Morphology and Syntax **Credits: 3**
- LING 3044 - Phonetics **Credits: 3**
- LING 3045 - Phonology **Credits: 3**

## Language Requirement: 6 credits

Linguistics majors are required to take at least 6 credit hours of a single language (French, Spanish, German, Italian, Japanese, or other modern language) at or above the 2000-level (the language courses must contain grammar). Students who have not taken enough high school language courses to enter at the 2000-level will be required to take the prerequisite, 1000-level language courses.

Linguistics majors who are Modern Language minors must take either:

- 6 credit hours of a different language than their minor at or above the 2000-level, or
- 6 credit hours from the courses listed below in either the linguistics and/or the interdisciplinary electives category.

## Linguistics Electives: 15 credits

Any five of the following courses may be chosen in consultation with a linguistics faculty advisor:

- LING 2011 - Origins of English Words **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**
- LING 3055 - Language and Law **Credits: 3**
- LING 3070 - Old English **Credits: 3**
- LING 3073 - Old Norse **Credits: 3**
- LING 3075 - Latin **Credits: 3**
- LING 4010 - Studies in Linguistics: Variable Topics **Credits: 3 \***
- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4013 - Psycholinguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**
- LING 4016 - Introduction to Translation Studies **Credits: 3**

*\*Course may be repeated for credit under different topics, up to a limit of 9 credits.*

## Interdisciplinary Electives: 9 credits

Any three of the following interdisciplinary courses may be chosen in consultation with a linguistics faculty advisor (at least one must be 3000/4000-level):

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ANT 2500 - Anthropology of Language **Credits: 3**
- COMM 2010 - Gender and Communication **Credits: 3**
- FRE 3150 - French Phonetics: Theory and Practice **Credits: 3**
- FRE 4540 - Literature, Culture, and Translation **Credits: 3**
- GER 3150 - German Phonetics: Theory and Practice **Credits: 3**
- GER 3300 - Advanced German Grammar **Credits: 3**
- LING 2011 - Origins of English Words **Credits: 3**
- LING 3055 - Language and Law **Credits: 3**
- LING 3900 - Linguistics Omnibus Courses **Credits: 3\***
- LING 4010 - Studies in Linguistics: Variable Topics **Credits: 3 \***
- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4013 - Psycholinguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**
- LING 4016 - Introduction to Translation Studies **Credits: 3**
- PHI 2440 - Symbolic Logic **Credits: 3**
- PHI 3120 - Philosophy of Language **Credits: 3**
- PHI 3330 - Epistemology **Credits: 3**
- PHI 3530 - Philosophy of Mind **Credits: 3**
- SLHS 2100 - Language Acquisition and Development **Credits: 3**
- SLHS 3200 - Clinical Phonetics **Credits: 3**
- SPA 3150 - Spanish Phonetics: Theory and Practice **Credits: 3**
- SPA 4015 - Introduction to Spanish Translation I **Credits: 3**
- SPA 4025 - Introduction to Spanish Translation II **Credits: 3**
- SPA 4310 - History of the Spanish Language **Credits: 3**

*\*Course may be repeated for credit under different topics, up to a limit of 9 credits.*

## Senior Experience: 3 credits

- LING 4060 - Modern Language Theory **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Core Courses	12 credits

Language Requirement	6 credits
Linguistic Electives	15 credits
Interdisciplinary Electives	9 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	39-54 credits
Total for the Linguistics Major, B.A.	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Linguistics Minor

The Linguistics program is an interdisciplinary study of human language. The Linguistics minor is designed to help students gain knowledge about language and its significance in society, to aid students in critical thinking, and to prepare them for a world of linguistic diversity.

Students may select from two concentrations within the Linguistics Minor, one focusing primarily on linguistics (Linguistics Concentration) and the other including a foreign language component (Language Concentration).

To receive credit for any ENG or LING prefix course, the student must receive a grade of "C-" or better. Students should note that programs differ in the minimum grade required.

## Linguistics Concentration: 21 credits

### Required Core Course: 3 credits

- LING 2010 - Introduction to Linguistics **Credits: 3**

### Linguistics Electives: 12 credits

Any four of the following courses chosen in consultation with a linguistics faculty advisor:

- LING 2011 - Origins of English Words **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3040 - Morphology and Syntax **Credits: 3**
- LING 3044 - Phonetics **Credits: 3**
- LING 3045 - Phonology **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**
- LING 3055 - Language and Law **Credits: 3**
- LING 3070 - Old English **Credits: 3**
- LING 3073 - Old Norse **Credits: 3**
- LING 3075 - Latin **Credits: 3**
- LING 4010 - Studies in Linguistics: Variable Topics **Credits: 3 \***

- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4013 - Psycholinguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**
- LING 4016 - Introduction to Translation Studies **Credits: 3**
- LING 4060 - Modern Language Theory **Credits: 3**

*\*These courses may be repeated for credit under different topics up to a limit of 9 credits.*

## Interdisciplinary Electives: 6 credits

Any two of the following interdisciplinary courses chosen in consultation with a linguistics faculty advisor:

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ANT 2500 - Anthropology of Language **Credits: 3**
- FRE 3150 - French Phonetics: Theory and Practice **Credits: 3**
- FRE 4540 - Literature, Culture, and Translation **Credits: 3**
- GER 3150 - German Phonetics: Theory and Practice **Credits: 3**
- GER 3300 - Advanced German Grammar **Credits: 3**
- LING 2011 - Origins of English Words **Credits: 3**
- LING 3055 - Language and Law **Credits: 3**
- LING 4010 - Studies in Linguistics: Variable Topics **Credits: 3 \***
- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4013 - Psycholinguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**
- LING 4016 - Introduction to Translation Studies **Credits: 3**
- PHI 2440 - Symbolic Logic **Credits: 3**
- PHI 3120 - Philosophy of Language **Credits: 3**
- PHI 3330 - Epistemology **Credits: 3**
- PHI 3530 - Philosophy of Mind **Credits: 3**
- SLHS 2100 - Language Acquisition and Development **Credits: 3**
- SLHS 3200 - Clinical Phonetics **Credits: 3**
- SPA 3150 - Spanish Phonetics: Theory and Practice **Credits: 3**
- SPA 4015 - Introduction to Spanish Translation I **Credits: 3**
- SPA 4025 - Introduction to Spanish Translation II **Credits: 3**
- SPA 4310 - History of the Spanish Language **Credits: 3**
- COMM 2010 - Gender and Communication **Credits: 3**  
or
- GWS 2770 - Gender and Communication **Credits: 3**

*\*This course may be repeated for credit under different topics up to a limit of 9 credits.*

## Language Concentration: 18 credits

### Required Core Course: 3 credits

- LING 2010 - Introduction to Linguistics **Credits: 3**

### Language Requirement: 6 credits

At least 6 credits of a single language (French, Spanish, Italian, German, Japanese, or other modern language) at or above the 2000-level (the language courses must contain grammar). Students who have not taken enough high school language courses to enter at the 2000-level will be required to take the prerequisite 1000-level language courses.

For modern language majors who choose this (Language) concentration of the Linguistics minor, the student must take 6 credits of a different language than their major at or above the 2000-level.

### Linguistics Electives: 9 credits

Any three of the following courses chosen in consultation with a linguistics faculty advisor:

- LING 2011 - Origins of English Words **Credits: 3**
- LING 3011 - Analyzing English **Credits: 3**
- LING 3020 - History of the English Language **Credits: 3**
- LING 3030 - Semantics **Credits: 3**
- LING 3040 - Morphology and Syntax **Credits: 3**
- LING 3044 - Phonetics **Credits: 3**
- LING 3045 - Phonology **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**
- LING 3055 - Language and Law **Credits: 3**
- LING 3070 - Old English **Credits: 3**
- LING 3073 - Old Norse **Credits: 3**
- LING 3075 - Latin **Credits: 3**
- LING 4010 - Studies in Linguistics: Variable Topics **Credits: 3 \***
- LING 4011 - Anthropological Linguistics **Credits: 3**
- LING 4012 - Historical Linguistics **Credits: 3**
- LING 4013 - Psycholinguistics **Credits: 3**
- LING 4015 - Dialects of North American English **Credits: 3**
- LING 4016 - Introduction to Translation Studies **Credits: 3**
- LING 4060 - Modern Language Theory **Credits: 3**

*\*These courses may be repeated for credit under different topics up to a limit of 9 credits.*

## Rhetoric, Composition, and Professional Writing Minor

A minor in Rhetoric, Composition, and Professional Writing provides a program of study to help students learn to use rhetoric and to see how language and writing shape actions and attitudes to form persuasive discourse in a variety of contexts. Students study contemporary and classical rhetoric and composition theory, as well as visual literacy, research methodologies, and professional writing. This minor complements any major on campus and gives students the opportunity to improve critical reading, writing, and thinking skills, as well as to conduct original, undergraduate research, to compose and interpret texts using multiple modes, including written, digital, and visual, to learn to tutor or teach writing, and to acquire competence in critical analysis and effective communication.

## Required Courses

### Introductory Course:

- ENG 2510 - Introduction to Rhetoric and Composition  
**Credits: 3**

**Subtotal: 3 credits**

**Select one course from three of the following areas:**

- Cinema Studies
- Linguistics
- Literature
- Creative Writing

**Subtotal: 9 credits**

**Select four of the following courses:**

- ENG 2505 - Rhetoric of War **Credits: 3**
- ENG 2512 - The Rhetoric of Social Media **Credits: 3**
- ENG 3501 - Studies in Rhetoric and Writing: Style **Credits: 3**
- ENG 3503 - Rhetoric and Visual Literacy **Credits: 3**
- ENG 3505 - Concepts of Authorship **Credits: 3**
- ENG 3506 - Academic Editing and Composing **Credits: 3**
- ENG 3507 - Writing Reviews and Criticism **Credits: 3**
- ENG 3510 - Composition Studies: Theories and Practice **Credits: 3**
- ENG 3520 - Research Methods in Rhetoric and Composition **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3526 - Writing in the Sciences **Credits: 3**
- ENG 3535 - Essentials of Grant Writing **Credits: 3**
- ENG 3670 - Social Change and Writing Centers **Credits: 3**
- ENG 3820 - Writing Studio: Variable Topics **Credits: 3**
- ENG 3980 - Internship in English **Credits: 1-15**

**Subtotal: 12 credits**

**Three credits of the following courses can be substituted for one course from the list above:**

- ENG 3671 - Writing Tutoring **Credits: 1**
- ENG 3672 - Research in Writing Centers **Credits: 1**
- ENG 4850 - Undergraduate Research in English **Credits: 1-3**

**Total Semester Hours Required: 24**

## Gender Institute for Teaching and Advocacy

The Gender Institute for Teaching and Advocacy (GITA) is a unique office on the Auraria campus, in that GITA offers both academics (one major and two minors) and direct services to students. GITA provides academic and holistic support for students targeted by sexism and other intersecting oppressions at MSU Denver.

The academic program within GITA identifies and critically examines systems of power utilizing intersectional and transnational frameworks that allow for self-reflection and active engagement in social change. It prepares students for professional and graduate education, as well as employment in many different fields, such as victim advocacy, women's health, LGBTQ services, prevention education, public policy, family services, counseling and therapy and media. Students may elect to major in Gender, Women, and Sexualities Studies (GWS), or minor in Gender Studies or Sexualities Studies. Several GWS courses are offered for General Studies course credit, Guaranteed State Transfer or in fulfillment of the Multicultural graduation requirement.

### Academic Programs

- [Gender, Women, and Sexualities Studies Major, B.A.](#)
- [Gender Studies Minor](#)
- [Sexualities Studies Minor](#)
- Career and Personal Development Courses

### Commitment to Gender Equity and Social Inclusion

The services arm of GITA empowers students, staff, faculty, and community members by providing access to information and resources to meet the needs of a diverse campus body. These services include resource information for students in need, a community scholarship database, a snack stop, advising and problem-solving for individuals, a feminist library, and a private, cozy, lactation space. Through our collaborations across campus, we offer programming that encourages engagement in critical dialogue and advocacy for social justice. As a whole, GITA is committed to building an inclusive environment that makes students feel at home, affirms their identities, and provides them with the tools for success.

### Scholarship and Mini-Grant Awards

GITA sponsors a number of scholarships, among them the Pamela McIntyre-Marcum Scholarship, the Meredith Wetzel Memorial Scholarship, the Activist Scholarship, the Gender, Women and Sexualities Studies Scholarship, the Nueva Esperanza Scholarship, and the Lauren McCall Endowed Scholarship. GITA offers \$500-\$1,000 mini-grants to students who are finishing up their first bachelor's degree with financial need as determined by Pell-eligibility, lifetime loans, and eligibility to receive federal aid due to their immigration status. Travel and research grants are also available to students. More information can be found here: <https://www.msudenver.edu/gita/findscholarshipsandgrants/>.

## Gender Studies Minor

The Gender Studies minor offers courses on gender and women's studies. The minor prepares students to examine contemporary social justice issues using gender as a category of analysis, while embracing an intersectional, transnational, and feminist perspective.

The Gender Studies minor must be planned in consultation with a faculty member in GWS. A grade of "C-" or better is required for each course in this program to count toward the minor.

## Core Required Courses

- GWS 1001 - Introduction to Gender, Women, and Sexualities Studies **Credits:** 3
- GWS 2100 - Women of Color **Credits:** 3
- GWS 2200 - Feminist and Queer Research Methods **Credits:** 3
- GWS 3510 - Feminist Theories and Practices **Credits:** 3
- GWS 4750 - Feminist Research and Activism **Credits:** 3

## Electives

A minimum of 9 additional semester hours is required in Gender, Women, and Sexualities courses.

**Total hours for the minor are 24**

## Gender, Women, and Sexualities Studies Major, B.A.

[Gender Institute for Teaching and Advocacy](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Bachelor of Arts in Gender, Women and Sexualities Studies identifies and critically examines systems of power utilizing intersectional and transnational frameworks that allow for self-reflection and active engagement in social change. It prepares students for professional and graduate education, as well as employment in many different fields, such as victim advocacy, health care, LGBTQI+ services, prevention education, public policy, family services, counseling and therapy, and media.

## Student Outcomes

### KNOWLEDGE

- Students will be able to describe the main social, economic, political, technological, psychological, and cultural issues facing sexed and gendered individuals in a transnational context; and/or
- Students will be able to describe and identify major actors and events within feminist and LGBTQ activism and movements in the United States; and/or
- Students will be able to critique and apply feminist and LGBTQ thoughts and theories and research methods to the social realities of lived intersectional experiences.

### WRITTEN AND ORAL SKILLS

- Students will be able to demonstrate college level written and oral skills that show information literacy grammatical, organizational, and stylistic sophistication appropriate to their audience.
- Students will be able to create and support a focused and coherent analytical essay that demonstrate effective use of library collections and other scholarly resources.

### CRITICAL THINKING SKILLS

- Students will be able to utilize self-reflexivity to appraise one's sociopolitical location in relation to scholarship and activism.
- Students will be able to design and implement an applied feminist experience through an internship, service learning, research or teaching assistantship.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS required for this program.
- Students must take GWS 3510 and GWS 4750 in sequence.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)

- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Core Required Courses: 21 credits

- GWS 1001 - Introduction to Gender, Women, and Sexualities Studies **Credits: 3**
- GWS 1200 - Multicultural Study of Sexualities and Genders **Credits: 3**
- GWS 2100 - Women of Color **Credits: 3**
- GWS 2200 - Feminist and Queer Research Methods **Credits: 3**
- GWS 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits: 3**
- GWS 3510 - Feminist Theories and Practices **Credits: 3**
  
- GWS 4920 - Gender, Women, and Sexualities Studies Internship **Credits: 1-12**  
OR
- GWS 4970 - Undergraduate Teaching Assistant Training **Credits: 3**

## Area Requirements: 18 credits

Students must take one course from each of the four areas: Transnational and Cultural Diversity, Social Justice and Activism, Bodies and Sexualities, and Interdisciplinary. Additionally, students must take two courses within their selected focus area. These courses must be planned in consultation with a faculty member in GITA.

### Transnational and Cultural Diversity

- GWS 2400 - Women's Folklore and Folklife **Credits: 3**
- GWS 3240 - American Indian Women **Credits: 3**
- GWS 3395 - Transnational Genders and Sexualities **Credits: 3**
- GWS 3530 - Gender and Global Politics **Credits: 3**
- GWS 3540 - Women in the Developing World **Credits: 3**
- GWS 3930 - Theories of Love and Sex **Credits: 3**

### Social Justice and Activism

- GWS 3260 - Gender, Social Justice and the Personal Narrative **Credits: 3**
- GWS 3300 - Women's Leadership **Credits: 2**
- GWS 3310 - Women and the Law **Credits: 3**
- GWS 3780 - Gender and Disaster **Credits: 3**
- GWS 3910 - Women's Spirituality **Credits: 3**
- GWS 3940 - Victim Advocacy for Survivors of Interpersonal Violence **Credits: 3**
- GWS 4240 - Women and Violence **Credits: 3**

## Bodies and Sexualities

- GWS 1550 - Introduction to Transgender Studies **Credits: 3**
- GWS 3230 - Bodies and Embodiment **Credits: 3**
- GWS 3270 - Beauty Cultures **Credits: 3**
- GWS 3280 - Queer Theory **Credits: 3**
- GWS 3490 - Queer Sexualities and Identity **Credits: 3**
- GWS 3910 - Women's Spirituality **Credits: 3**
- GWS 3920 - Gender Politics of Health **Credits: 3**
- GWS 3930 - Theories of Love and Sex **Credits: 3**
- GWS 4240 - Women and Violence **Credits: 3**

## Interdisciplinary Electives

A minimum of 3 additional semester hours is required in Gender, Women and Sexualities courses.

## Senior Experience: 3 credits

- GWS 4750 - Feminist Research and Activism **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Required Courses	21 credits
Area Requirements	18 credits
Senior Experience Requirement	3 credits
Minor and Unrestricted Electives	42-60 credits
<b>Total for the Gender, Women, and Sexualities Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Sexualities Studies Minor

The Sexualities Studies minor complements any major, but is particularly important for students who hope to work with LGBTQIA and other sexual and gender minority populations. This minor

prepares students to examine content and historical issues through critical queer and trans lenses, in local and global contexts.

The Sexualities Studies minor must be planned in consultation with a faculty member in GWS. A grade of “C-” or better is required for each course in this program to count toward the Bachelor’s degree. Students should note that programs differ in the minimum grade required.

## Required Courses

- GWS 1200 - Multicultural Study of Sexualities and Genders **Credits: 3**
- GWS 1550 - Introduction to Transgender Studies **Credits: 3**
- GWS 2200 - Feminist and Queer Research Methods **Credits: 3**
- GWS 3280 - Queer Theory **Credits: 3**
- GWS 4750 - Feminist Research and Activism **Credits: 3**

**Subtotal: 15 credits**

## Electives

A minimum of 9 additional semester hours is required from either Gender, Women, and Sexualities courses or the courses listed below:

- EDU 3200 - Human Diversity: Applications to Multicultural Education **Credits: 3**
- GWS 3070 - Psychology of Sexual Orientation **Credits: 3**
- GWS 3220 - Prejudice and Discrimination **Credits: 3**
- GWS 3470 - Biology of Women **Credits: 3**
- GWS 3490 - Queer Sexualities and Identity **Credits: 3**
- GWS 3500 - Social Work Practice with LGBTQ People **Credits: 3**
- GWS 3930 - Theories of Love and Sex **Credits: 3**
- HSP 4250 - Counseling the Gay, Lesbian, Bisexual, or Transgender Client **Credits: 2**
- PHI 3480 - Histories of Desire: Variable Topics **Credits: 3**
- PSY 2850 - Psychology of Sexuality **Credits: 3**
- PSY 3030 - Multicultural Psychology **Credits: 3**

**Subtotal: 9 credits**

**Total for Minor: 24 credits**

## Department of History

Central Classroom 211  
Tel: 303-615-0500  
Web: [msudenver.edu/history](http://msudenver.edu/history)

### Academic Programs

- [History Major, B.A.](#)
- [History Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [History Minor](#)

Students majoring in History must select either a General Concentration or one of the Secondary Education Concentrations. The General Concentration requires the completion of a minor in a discipline other than History. The Secondary Education Concentrations are for students seeking licensure to teach secondary school social studies. All concentrations within the major require a minimum of 42 semester hours, including 15 semester hours of core courses and an additional 27 semester hours in courses primarily selected from three different categories. All students should check with a departmental advisor in order to make a proper selection of courses.

## History Major, B.A.

[Department of History](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Everything has a history. From sugar to science, from the Colosseum in Rome to the ruins of Mesa Verde. MSU Denver History students study our complex past in small class settings with world-class historians and dedicated teachers. The major includes thirty-nine (39) credits of courses beyond the General Studies Historical requirement across different world regions, themes, and time periods. For maximum flexibility, many courses are available in both the on-campus and/or remote setting. Our students develop breadth while refining their critical thinking and research skills. The History Department believes in the power of a university education to liberate minds, and we are resolute in our service to students from traditionally marginalized communities. We hope you will join us as we explore the rich and complicated history of humans through time around the globe.

## Student Outcomes

- Locate sources-- Demonstrate the ability to locate sources when information is needed, and to evaluate the authenticity, validity, and reliability of resources applied to a specific purpose.
- Communicate in writing-- Communicate in writing with an awareness of audience, by using language conventions appropriate to the occasion and task.
- Employ historical knowledge-- Demonstrate historical knowledge of the United States, the world, and major regions of the world.
- Understand context-- Demonstrate, using historical sources, how context and contingency influence change over time.
- Interpret evidence-- Develop an effective historical interpretation and marshal primary and/or secondary source evidence to support it.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 credit hours are required for graduation at MSU Denver
- All students should check with a departmental advisor to make a proper selection of courses.
- Students majoring in History must have at least a 2.0 average in their History courses to graduate. Students should note that programs differ in the minimum grade required.
- Students majoring in History must also have a minor.
- Students interested in teaching History or other Social Studies subjects in secondary schools should instead consult the History Major with Secondary Social Studies Licensure in this catalog.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## History Major Core: 12 credits

Students should complete four (4) introductory courses in History from the list below, one of which will also count for the Historical General Studies requirement.

- HIS 1005 - Ancient Civilizations **Credits: 3**
- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1035 - The Medieval World **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1045 - Europe, Renaissance to the Present **Credits: 3**
- HIS 1150 - Multicultural America **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- HIS 1250 - China and East Asia **Credits: 3**
- HIS 1270 - India and South Asia **Credits: 3**
- HIS 1300 - Introduction to Latin American History **Credits: 3**
- HIS 1600 - Women in World History **Credits: 3**
- HIS 1700 - Nature and Society **Credits: 3**
- HIS 1940 - Survey of African History **Credits: 3**

## History Major Electives: 27 credits

Besides the required Core courses, students must take 27 credits of electives in History selected in consultation with an advisor. At least 18 of the 27 credits must be upper-division (3000 or 4000 level) courses. Included in those credits must be at least THREE credits in American History (HIS 3400-3699), at least THREE credits in European History (HIS 3100-3399), and at least THREE credits in World History (HIS 3700-3799). The department recommends that students take a Historical Writing and Thinking course (HIS 3000-3050).

## Senior Experience: 3 credits

- HIS 4820 - Senior Seminar **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
History Major Core	12 credits
History Major Electives	27 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-57 credits
<b>Total for the History Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

# History Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of History](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

This program combines a History Education Major with a concentration in Secondary Social Studies licensure. It prepares teacher candidates to teach Social Studies subjects in diverse secondary schools with some additional training in culturally and linguistically diverse teaching.

## Student Outcomes

- Locate sources-- Demonstrate the ability to locate sources when information is needed, and to evaluate the authenticity, validity, and reliability of resources applied to a specific purpose.
- Communicate in writing-- Communicate in writing with an awareness of audience, by using language conventions appropriate to the occasion and task.
- Employ historical knowledge-- Demonstrate historical knowledge of the United States, the world, and major regions of the world.
- Understand context-- Demonstrate, using historical sources, how context and contingency influence change over time.
- Interpret evidence-- Develop an effective historical interpretation and marshal primary and/or secondary source evidence to support it.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment--Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Courses recommended below will satisfy both General Studies and Major or Concentration requirements.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the following: ANT 2330 - Cross-Cultural Communication, ECO 2010 - Principles of Macroeconomics, ECO 2020 - Principles of Microeconomics, GEG 1000 - World Regional Geography, PSC 1010 - American National Government, or PSC 2230 - Introduction to International Relations
- Global Diversity (0-3 credits).

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## History Major: 42 credits

The History Major requires thirty-nine (39) credits of History courses beyond the Historical General Studies requirement. A grade of "C-" or better is required for each course in this program to count toward licensure. Note that students can register strategically to apply their General Studies Global Diversity course requirement and the Multicultural course requirement toward History Major requirements below. All students should check with a departmental adviser to plan their selection of courses in the Major.

## History Education Major Core: 12 credits

Students should complete four (4) introductory courses in History from the list below, one of which will also count for the Historical General Studies requirement. The department recommends that students choose at least TWO American History courses for the degree program to prepare for teaching at the secondary level.

- HIS 1005 - Ancient Civilizations **Credits:** 3
- HIS 1030 - World History to 1500 **Credits:** 3

- HIS 1035 - The Medieval World **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1045 - Europe, Renaissance to the Present **Credits: 3**
- HIS 1150 - Multicultural America **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- HIS 1250 - China and East Asia **Credits: 3**
- HIS 1270 - India and South Asia **Credits: 3**
- HIS 1300 - Introduction to Latin American History **Credits: 3**
- HIS 1600 - Women in World History **Credits: 3**
- HIS 1700 - Nature and Society **Credits: 3**
- HIS 1940 - Survey of African History **Credits: 3**

### Upper-Division History Electives: 18 credits

Students need at least eighteen (18) upper-division elective credits for the History Major. These are 3000 and 4000 level History courses. Nine of these upper-division credits should focus on these specific regions. Note that course number ranges correspond to designated regions:

- At least one upper-division course in American History (HIS 3400-3699)
- At least one upper-division course in European History (HIS 3100-3399)
- At least one upper-division course in World History (HIS 3700-3799)

Also recommended as upper-division History Electives are:

- HIS 3425 - Colorado and the Nation (3 credits)
- HIS 3720 - Themes in World History: Variable Topics (3 credits)
- A Historical Writing and Thinking Course (HIS 3000-3050) (3 credits)

### Broad History Electives: 9 credits

Nine (9) additional elective credits are needed for the History Major. These can be taken at the lower-division (HIS 1000-1999) or upper-division level (HIS 3000-3999).

There are some one-credit courses that can count toward this nine-credit elective requirement in the Major. These are:

- HIS 3990 - History Pedagogy Laboratory (Note: this course can be repeated with different instructors)
- HIS 3991 - Undergraduate Teaching Assistant (Note: this course can be repeated with different instructors)
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools (Note: this course is required as a Foundations and Teachings Strategies Course below, but the one credit may only count once toward the degree total).

### Major Capstone Course: 3 credits

The three-credit Social Studies methods course is typically taken along with HIS 4020 Field Experience in Teaching Social Studies in Secondary Schools.

- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**

### Additional Requirements for the Concentration in Secondary Social Studies Licensure: 52 credits

#### Social Science Courses: 21 credits

All students must complete twenty-one (21) credits in the following Social Science disciplines to prepare to teach secondary Social Studies. Note that six credits below can also satisfy the General Studies Social and Behavioral Sciences requirement. Additionally, GEG 1100 can satisfy three credits of the General Studies Natural and Physical Science requirement. So the subtotal of credits required for this section could drop to twelve if students also complete the recommended General Studies courses.

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

#### Foundations and Strategies for Secondary Teaching: 31 credits

This Secondary Education Licensure Program prepares candidates to teach Social Studies courses in grades 6-12. With the courses and field experiences below, candidates satisfy the Colorado Department of Education Teacher Quality Standards for licensure in Secondary Education.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**

- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- MTH 1610 - Integrated Mathematics I **Credits: 3**  
Note: students who take this course to meet the General Studies Quantitative Literacy requirement will not have three additional credits in this section of their degree program.
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1**

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
History Major Core	42 credits
Social Science Courses	21 credits
Foundations and Strategies for Secondary Teaching	31 credits
Senior Experience	12 credits
<b>Total Credits for History Major, B.A. with Concentration in Secondary Social Studies Licensure</b>	<b>124 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## History Minor

Everything has a history. From sugar to science, from the Colosseum in Rome to the ruins of Mesa Verde. MSU Denver History students study our complex past in small class settings with world-class historians and dedicated teachers. For maximum flexibility, many

courses are available in both the on-campus and/or remote setting. Our students develop breadth while refining their critical thinking and research skills. The History Department believes in the power of a university education to liberate minds, and we are resolute in our service to students from traditionally marginalized communities. We hope you will join us as we explore the rich and complicated history of humans through time around the globe.

Students minoring in History complete twenty-one (21) credits of History courses.

## Minor Requirements

Students minoring in History will complete 21 credits of History courses. Those courses that fulfill MSU Denver General Studies requirements can also count within the History Minor. A History course taken to satisfy the MSU Denver Multicultural Graduation requirement can apply in the History Minor as well. Please see a History Advisor for details.

A minimum of nine credits in History courses must be upper-division (3000 or 4000 level), and the department recommends that students maximize the number of upper-division history courses that they take for the Minor. Students are also encouraged to take a Historical Writing and Thinking course (HIS 3000-3050).

Students should note that programs differ in the minimum grade required. History minors must have a GPA of 2.0 in the minor and an overall GPA of 2.0 to graduate.

## Total Credits for the History Minor

Upper-division Course Minimum (HIS 3000 - HIS 4999)	9 credits
Elective History Courses (HIS 1000 - HIS 4999)	12 credits
Minor Total	21 credits

## Department of Journalism and Media Production

Studies in the Department of Journalism and Media Production blend the knowledge of communication practices and technology. Coursework in media production and journalism develops essential skills for working professionals in the mass media, public relations, technical, scientific, medical, journalism, media production, or corporate communication fields.

The coursework focuses on the development of reader-centered, content-driven information products produced in various areas of concentration including journalism, public relations, mobile and social media communication, video and interactive media production, or technical writing and editing.

## Bachelor of Arts

- [Broadcast Journalism Major, B.A.](#)

- [Journalism Major, B.A.](#)

The journalism program prepares students for careers in traditional and convergent media. A solid education is offered in the basics of journalism with Bachelor of Arts degrees earned in journalism or broadcast journalism. Students may also choose from journalism minors.

Proficiency in standard written English is a prerequisite for all journalism courses. Students are required to complete ENG 1010 before taking any journalism courses beyond JMP 1000.

Students should select an advisor early in their course of study. Students may not select both a major and minor from the Journalism program. The Journalism program will provide students with a list of suggested General Studies courses to help them gain a broad base of knowledge necessary for working in news and information media.

The journalism faculty are academic and working professionals who offer a real-world education in the tenets of journalism; accuracy, truth, fairness, acting independently and minimizing harm. Instructors also teach rigorous courses of First Amendment case studies and ethical issues that prepare students for careers in both print and electronic newsrooms and public relations firms.

Scholarships are offered to students in the MSU Denver Journalism program.

All journalism degree emphases prepare our students for traditional and convergent publishing. Many of our graduates are working professionals at local, national and international media companies. All journalism majors require a minor.

## Bachelor of Science

- [Media Production and Leadership Major, B.S.](#)
- [Public Relations Major, B.S.](#)
- [Technical Writing and Editing, B.S.](#)
- [Video Production Major, B.S.](#)

The Department of Journalism and Media Production also offers four Bachelor of Science degrees plus an extended major in Journalism and Media Production. In addition, the department offers a Digital Media Minor in conjunction with the Department of Art and the Department of Communication Arts and Sciences.

Each individual major teaches theory, concepts, and practical applications that can be employed in various areas of business, industry, government, and the media production field. With the exception of the extended major option, all students must complete a minor.

Upon completion of a degree program in this program, students should be able to:

- Communicate knowledge of the field both orally and in writing
- Relate technical communication principles from their selected areas of concentration

- Apply theory and principles in a practical manner to their areas of concentration
- Conduct research, synthesize technical information and write in the appropriate format of their concentration
- Present technical information in a media or interactive media format suitable to their areas of concentration
- Produce or oversee the production of technical information in a video or interactive media format suitable to their area of concentration

## Extended Major

To complete the extended major in Journalism and Media Production, students must fulfill the 12-credit departmental core, all of the coursework required for any of the department's normal majors, followed by sufficient credits in JMP courses to total 66 credits. In addition, the student must fulfill all of MSU Denver's General Studies and Multicultural requirements. Students enrolled in the extended major are NOT required to complete a minor. Consult the department for details concerning the extended major.

- [Extended Major in Journalism and Media Production, B.S.](#)

## Digital Media Minor

The Digital Media minor includes courses from the departments of Art, Communication Arts and Sciences, and Journalism and Media Production. This minor consists of 24 credits, six of which must be upper division. This minor is designed to provide skills that will increase employment opportunities in the field of digital media communication.

- [Digital Media Minor](#)

## Journalism and Media Production Minor

- [Journalism and Media Production Minor](#)

## Sport Media Minor

The Sport Media minor includes courses from the departments of Human Performance and Sport, and Journalism and Media Production. The minor consists of a core of courses drawn from both departments.

- [Sport Media Minor](#)

## Strategic Communication Certificate

- [Strategic Communication Certificate](#)

## Broadcast Journalism Major, B.A.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## About the Program

Broadcast Journalism is a program that focuses on the methods and techniques for reporting, producing, and delivering news and news programs via radio, television, and video/film media; and that prepares individuals to be professional broadcast journalists, editors, producers, directors, and managers. The program includes instruction in the principles of broadcast technology; broadcast reporting; on- and off-camera and microphone procedures and techniques; program, sound, and video/film editing; program design and production; media law and policy; and professional standards and ethics.

## Student Outcomes

- Promoting critical thinking and evaluation of sources.
- Developing students who apply Associated Press style guidelines to their writing.
- Developing students who create original works of reporting.
- Fostering the ability of students to analyze ethical and legal considerations in the field.
- Promoting an environment of professional, collaborative behavior.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

## Broadcast Journalism Courses: 21 credits

All Broadcast Journalism majors take the following courses. Students choose either Producing the TV Newscast OR Workshop in Radio Production. Students also choose either Advanced TV Production OR Advanced Radio Production. If students take both courses, the second will count as an elective.

- JMP 2100 - Reporting **Credits: 3**
- JMP 3410 - Writing for Broadcast Media **Credits: 3**
- JMP 3430 - Performance for Broadcast **Credits: 3**
- JMP 3445 - Television Production **Credits: 3**
- JMP 3461 - Producing the TV Newscast **Credits: 3**  
or
- JMP 3462 - Workshop in Radio Production **Credits: 3**
- JMP 3980 - Internship: Journalism and Media Production **Credits: 3**
- JMP 4443 - Advanced Television Production **Credits: 3**

or

- JMP 4462 - Advanced Radio Production **Credits: 3**

[Department of Journalism and Media Production](#)

Available Program  
Format(s): In-Person

[College of Letters, Arts and Sciences](#)

## Major Electives: 9 credits

Students complete the major with nine credit hours of electives. Any course offered by the department is an eligible elective, but the following list is recommended. Please select electives in consultation with an adviser.

- JMP 2400 - Basic Video Editing **Credits: 3**
- JMP 2420 - Basic Video Production **Credits: 3**
- JMP 2800 - Introduction to Audio Production **Credits: 3**
- JMP 3300 - Multimedia Journalism I **Credits: 3**
- JMP 3420 - Video Production Process **Credits: 3**
- JMP 3451 - Sports Broadcasting: Techniques and Practices **Credits: 3**
- JMP 3461 - Producing the TV Newscast **Credits: 3**
- JMP 3462 - Workshop in Radio Production **Credits: 3**
- JMP 3540 - Mobile and Social Media Communication **Credits: 3**
- JMP 4100 - Investigative Reporting **Credits: 3**
- JMP 4300 - Multimedia Journalism II **Credits: 3**
- JMP 4403 - Electronic Media Management **Credits: 3**
- JMP 4420 - Advanced Video Production **Credits: 3**
- JMP 4443 - Advanced Television Production **Credits: 3**
- JMP 4462 - Advanced Radio Production **Credits: 3**
- JMP 4890 - Social Documentary **Credits: 1-4**

## Senior Experience: 3 credits

- JMP 4500 - Ethical and Legal Issues in Journalism **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Requirements	21 credits
Major Electives	9 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	39-42 credits
<b>Total for the Broadcast Journalism Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Extended Major in Journalism and Media Production, B.S.

## About the Program

Students complete an extended major in Journalism and Media Production by completing the 12-credit hour department core, the requirements for any one major within the department, an approved Senior Experience course in the department, plus enough additional credit hours in the department to total at least 66 credit hours.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Department Core: 12 credits

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

## Major Requirements: 25-31 credits

Students complete the major requirements in one of the following areas:

- Broadcast Journalism Major, B.A.
- Journalism Major, B.A.
- Media Production and Leadership Major, B.S.
- Public Relations Major, B.S.
- Technical Writing and Editing, B.S.
- Video Production Major, B.S.

The credit hour requirements for each major, in addition to the department core, varies. Please confer with an academic adviser.

## Additional Required Courses: 20-26 credits

In addition to completing the department core and one of the major requirements, the student then completes the extended major with other course work within the department. A student must complete at least 66 credit hours within the department to attain the extended major. A student with an extended major does not have to complete a minor.

## Senior Experience: 3 credits

Students complete one of these two courses, depending on the selection program to serve as the concentration:

- JMP 4500 - Ethical and Legal Issues in Journalism **Credits: 3**
- JMP 4790 - Senior Seminar **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits

Department Core	12 credits
Extended Major Option	25-31 credits
Additional Required Courses	20-26 credits
Senior Experience	(counted in concentration)
Unrestricted Electives	18-21 credits
<b>Total for the Extended Major in Journalism and Media Production, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Journalism and Media Production Minor

The Journalism and Media Production Minor is designed to provide skills that will increase employability for the student where journalistic and technical writing skills will be valuable. In addition to the required 12-credit hours in department core courses, the student takes Communication Law plus one other upper division course to complete the 18 credit minor.

A grade of "C" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Department Core

Students pursuing the Journalism and Media Production minor must complete the 12-credit hour department core, plus Communication Law.

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**
- JMP 3780 - Communication Law **Credits: 3**

Subtotal: 15

## JMP electives

Students complete at least one upper division JMP course from the list below. Students may substitute upper division courses in JMP if approved by an academic adviser in the department.

- JMP 3130 - Sports Writing **Credits: 3**
- JMP 3400 - Short-form Nonfiction Writing **Credits: 3**
- JMP 3500 - Topics in Journalism: Variable Topics **Credits: 1-3**
- JMP 3660 - Variable Topics in Industrial and Technical Communications **Credits: 3**
- JMP 4000 - News Media Leadership **Credits: 3**

Subtotal: 3

Notes:

Please meet with an academic advisor in the department to ensure successful completion of the minor.

Total: 18

## Journalism Major, B.A.

[Department of Journalism and Media Production](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Journalism program prepares students for careers in news and information media by providing them with a sound education in the basics of gathering information and preparing it for an audience that will access their work across multiple platforms. The program includes instruction in news writing and gathering; editing; reporting; photojournalism; journalism law and policy; and professional standards and ethics.

### Student Outcomes

- Promoting critical thinking and evaluation of sources.
- Developing students who apply Associated Press style guidelines to their writing.
- Developing students who create original works of reporting.
- Fostering the ability of students to analyze ethical and legal considerations in the field.
- Promoting an environment of professional, collaborative behavior.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.

- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

### Journalism Courses: 19 credits

All Journalism majors take the following courses:

- JMP 2100 - Reporting **Credits: 3**
- JMP 2600 - Beginning Photojournalism **Credits: 3**
- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- JMP 3300 - Multimedia Journalism I **Credits: 3**

- JMP 3510 - Portfolio Presentation **Credits: 1**
- JMP 3550 - Data Visualization and Presentation **Credits: 3**
- JMP 3980 - Internship: Journalism and Media Production **Credits: 3**

## Major Electives: 9 credits

Students complete the Journalism major with nine credit hours of additional JMP course work. At least three credit hours must be upper division. Any JMP course is an acceptable elective, but the following list is particularly suited to the degree.

- JMP 2400 - Basic Video Editing **Credits: 3**
- JMP 2420 - Basic Video Production **Credits: 3**
- JMP 2800 - Introduction to Audio Production **Credits: 3**
- JMP 3410 - Writing for Broadcast Media **Credits: 3**
- JMP 3445 - Television Production **Credits: 3**
- JMP 3461 - Producing the TV Newscast **Credits: 3**

## Senior Experience: 3 credits

- JMP 4500 - Ethical and Legal Issues in Journalism **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Required Courses	19 credits
Major Electives	9 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	41-44 credits
<b>Total for the Journalism Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Media Production and Leadership Major, B.S.

[Department of Journalism and Media Production](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Media Production and Leadership concentration exposes students to a variety of methods for leading others towards implementing technology ethically to better communicate with audiences. Today professional communicators who want to change corporate culture and society using information and entertainment need to rely on a team of technical experts in writing, sound, camera usage, editing and web design to maximize the effectiveness and results of media related projects. The Media Production and Leadership concentration teaches students to actively participate in this growing field and become effective leaders.

### Student Outcomes

- Apply industry standard pre-production, production and post-production processes
- Develop successful strategies for delivering content to an audience
- Analyze ethical and legal considerations in media production
- Define and articulate complex technical details of a media production to a broad audience
- Evaluate media productions for measures of success and areas to improve

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)

- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

### Media Production and Leadership Courses: 24 credits

All Media Production and Leadership majors take the following courses:

- JMP 2450 - Basic Interactive Production **Credits: 3**
- JMP 3470 - Writing for Interactive Media **Credits: 3**
- JMP 3540 - Mobile and Social Media Communication **Credits: 3**
- JMP 3550 - Data Visualization and Presentation **Credits: 3**
- JMP 3590 - Streaming Media Technologies **Credits: 3**
- JMP 3625 - UX and UI: The User Experience **Credits: 3**
- JMP 3780 - Communication Law **Credits: 3**
- JMP 4450 - Advanced Media Production and Leadership **Credits: 3**

### Major Electives: 3 credits

Students complete the major with three credit hours of electives. Any course offered by the department is an eligible elective. Please select electives in consultation with an adviser.

### Senior Experience: 3 credits

Students finish the degree with the approved Senior Experience course.

- JMP 4790 - Senior Seminar **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Requirements	24 credits
Major Electives	3 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-45 credits
<b>Total for the Media Production and Leadership Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Public Relations Certificate

A Certificate in Public Relations is a 15-credit program that gives working professionals the skills they need to help their organizations communicate and engage with important stakeholders, internal and external. Students will learn to create compelling content for websites, social media and printed products. They will learn best practices in public relations and organizational communication and the process to develop strategy and execute a campaign. Strategies for handling potential crises also is covered.

### Required Courses

- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- JMP 3700 - Public Relations Writing **Credits: 3**
- JMP 3740 - Public Relations Research, Planning and Measurement **Credits: 3**
- JMP 4740 - Public Relations in Crises **Credits: 3**

### Elective Courses

Choose one of these electives.

- JMP 3540 - Mobile and Social Media Communication **Credits: 3**
- JMP 3720 - Media and Influencer Relations **Credits: 3**

### Total for Certificate: 15 credit hours

## Public Relations Major, B.S.

[Department of Journalism and Media Production](#)

[College of Letters, Arts and Sciences](#)

Program Available  
Format(s): In-Person

### About the Program

Students in the Public Relations major will build upon the fundamentals of journalism and media production in a program that focuses on the theories and methods for helping organizations and individuals nurture their reputations so that they can achieve their goals; employing communication strategies and tactics that influence internal and external stakeholders and prospects in the general public; and that prepares individuals to function as public relations assistants, technicians, and managers. Students receive instruction in public relations theory; related principles of persuasion, marketing and journalism; message/image design; image management; media relations; community relations; public affairs; and internal and external communication.

### Student Outcomes

- Promoting critical thinking and evaluation of sources.
- Developing students who apply Associated Press style guidelines to their writing.
- Developing students who create original works of reporting.
- Fostering the ability of students to analyze ethical and legal considerations in the field.
- Promoting an environment of professional, collaborative behavior.
- Demonstrate ability to create strategic PR plans and execute tactical activities.
- Demonstrate ability to work collaboratively within a team and professional environment.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students

should note that programs differ in the minimum grade required.

- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses and prepare a portfolio for evaluation:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

### Public Relations Courses: 25 credits

All Public Relations majors take the following specialized courses, including a Portfolio Review and approved Senior Experience course. Public Relations Lab is a repeatable course and may be taken for up to six credit hours.

- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- JMP 3510 - Portfolio Presentation **Credits: 1**
- JMP 3540 - Mobile and Social Media Communication **Credits: 3**

- JMP 3700 - Public Relations Writing **Credits: 3**
- JMP 3720 - Media and Influencer Relations **Credits: 3**
- JMP 3740 - Public Relations Research, Planning and Measurement **Credits: 3**
- JMP 3980 - Internship: Journalism and Media Production **Credits: 3**
- JMP 4740 - Public Relations in Crises **Credits: 3**
- JMP 4750 - Public Relations Laboratory **Credits: 3**

## Major Electives: 6 credits

Students complete the major with six credit hours of electives. Any course offered by the department is an eligible elective. Please select electives in consultation with an adviser.

## Senior Experience: 3 credits

- JMP 4500 - Ethical and Legal Issues in Journalism **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Required Courses	25 credits
Major Electives	6 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	38-41 credits
<b>Total for the Public Relations Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Sport Media Minor

The Sport Media Minor includes courses from the Departments of Human Performance and Sport, and Journalism and Media Production. This minor consists of 21 semester hours, six of which must be upper division. This minor is designed to provide skills that will increase employment opportunities in the field of sport media. Students in this minor will take a common core in HPS courses related to Sport Management and in JMP related to news media. Students will then hone their skills in elective course work in SM and/or JMP to complete the degree. Students must earn at least a "C-" in a course for it to count in the minor.

## Required Courses

- JMP 1000 - Introduction to Journalism and Mass Media **Credits: 3**
- SM 2050 - Introduction to Sport Management **Credits: 3**
- SM 3100 - Sport Media Operations **Credits: 3**

**Subtotal: 9 credits**

## Elective Courses

Students must select 12 credits of elective coursework. Six credits must be upper division.

- HPS 399C Field Experience **Credits: 3** (Offered under HPS 3990 - Field Experience **Credits: 1, 2 or 3**)
- JMP 2400 - Basic Video Editing **Credits: 3**
- JMP 2420 - Basic Video Production **Credits: 3** \*
- JMP 2600 - Beginning Photojournalism **Credits: 3**
- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- JMP 3063 - Sports Photojournalism **Credits: 3**
- JMP 3130 - Sports Writing **Credits: 3**
- JMP 3400 - Short-form Nonfiction Writing **Credits: 3**
- SM 2070 - Sport Venue Management **Credits: 3**
- SM 2730 - Sport in Society **Credits: 3**
- SM 3600 - Sport Promotion **Credits: 3**
- SM 3650 - Technology and Social Media in Sport **Credits: 3**

*\*Prerequisite Required (JMP 2400)*

**Subtotal: 12 credits**

**Total for Sport Media Minor: 21 credits**

## Strategic Communication Certificate

Many organizations employ an integrated communication model whereby Marketing, Communication, and Public Relations merge into one role or department that is referred to as Strategic Communication. To effectively operate in this environment, one must understand the roles and functions of all three areas. This program provides students and industry professionals the opportunity to expand their strategic communication knowledge and skills to bolster their preparedness for greater career opportunities.

This certificate program is available to current students, post-baccalaureate students, and members of the Marketing, Communication, and Public Relations industries seeking additional skills and training for career advancement.

Students may supplement their coursework by earning a Strategic Communication Certificate. Students must complete 18 credit hours. This includes four core courses and two electives. Students may apply courses they are required to complete for a major or minor in Communication Studies, Marketing, and Public Relations toward this certificate.

A grade of "C" or better is required in all courses to complete the certificate requirements. Students should note that programs may differ in the minimum grade required. Check each course description for specific prerequisites or corequisites.

## Required Courses

Below is the list of required courses. Each course is 3 credits for a total of 12 credits. Students will then select two elective courses. Each elective course option is 3 credits for a total of 6 elective credits. 12 required credits + 6 elective credits = 18 credits to complete the certification.

- COMM 3030 - Group Communication and Collaboration **Credits: 3**
- JMP 2700 - Fundamentals of Public Relations **Credits: 3**
- JMP 3700 - Public Relations Writing **Credits: 3**
- MKT 3200 - Digital Marketing Fundamentals **Credits: 3**

## Elective Public Relations Courses

- JMP 3720 - Media and Influencer Relations **Credits: 3**
- JMP 3740 - Public Relations Research, Planning and Measurement **Credits: 3**
- JMP 4740 - Public Relations in Crises **Credits: 3**

## Elective Marketing Courses

- MKT 3000 - Principles of Marketing **Credits: 3**
- MKT 3250 - Personal Selling **Credits: 3**
- MKT 4110 - Brand Management **Credits: 3**
- MKT 4300 - Social Media Marketing **Credits: 3**

## Elective Communication Studies Courses

- COMM 3000 - Diversity and Communication in the U.S. **Credits: 3**
- COMM 3010 - Business and Professional Speaking **Credits: 3**
- COMM 3340 - Leadership Communication **Credits: 3**
- COMM 4320 - Organizational Communication Consulting **Credits: 3**

Certificate Total: 18 credits

## Technical Writing and Editing, B.S.

[Department of Journalism and Media Production](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

The Technical Writing and Editing program provides the student with both the theory and production practices of delivering technical and scientific information used by industry and government to a general audience. Students hone their ability in writing to meet a professional standard, develop their ability to meet editing needs in content and copy rules, further their design abilities, demonstrate the ability to create reports, proposals and manuals, all while adhering to the demands of deadlines.

## Student Outcomes

- Evaluate the currency, authenticity, validity and reliability of resources and document those resources according to publication standards
- Demonstrate, in writing, industry-standard style, language conventions and processes for professional communication and technical writing
- Demonstrate effective use of technologies appropriate to the technical communication industry.
- Analyze, synthesize and incorporate numeric data, as well as visual materials including images, figures, charts and tables into technical documents; and
- Prepare persuasive documents with well-reasoned arguments, applying the conventions of technical and scientific writing.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

### Technical Writing and Editing Courses: 15 credits

All Technical Writing and Editing majors take the following courses and select one of two specialties:

- JMP 2610 - Introduction to Technical Writing **Credits: 3**
- JMP 3310 - International Technical Communications **Credits: 3**
- JMP 3550 - Data Visualization and Presentation **Credits: 3**
- JMP 3620 - Introduction to Technical Editing **Credits: 3**
- JMP 3630 - Producing Digital Documents **Credits: 3**

Select One of the Following:

### International Technical Communication: 6 credits

Choose any 2 courses (6 credit hours) from the following:

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- BUS 1950 - Business Communication **Credits: 3**
- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits: 3**
- JMP 3330 - Technical Writing for Translation **Credits: 3**
- JMP 3645 - Writing Software and Hardware Documentation **Credits: 3**

### Technical Writing: 6 credits

Choose any 2 courses (6 credit hours) from the following:

- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- JMP 3330 - Technical Writing for Translation **Credits: 3**
- JMP 3470 - Writing for Interactive Media **Credits: 3**
- JMP 3645 - Writing Software and Hardware Documentation **Credits: 3**
- JMP 3670 - Writing for the Environmental Industry **Credits: 3**

### Major Electives: 6 credits

Students complete the major with six credit hours of electives. Any course offered by the department is an eligible elective. Please select electives in consultation with an adviser.

### Senior Experience: 3 credits

- JMP 4790 - Senior Seminar **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Required Courses	15 credits
International Technical Communications or Technical Writing	6 credits
Major Electives	6 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-48 credits
<b>Total for the Technical Writing and Editing Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

### Video Production Major, B.S.

should note that programs differ in the minimum grade required.

- A minor is required for this program

## About the Program

Students in the Video Production Major, B.S., are immersed in all aspects of working with video, be that a short film or documentary, television package or commercial, demonstration or educational video, music video or public service announcement. Students cover theories, concepts, techniques, and practical applications employed in various areas of industry including entertainment, business, government, and the many applications within the media production field.

Video production students work through the conception, pre-production, production and post-production stages as they develop increasingly specialized skills throughout their studies. They cap their work in the program with a video thesis or an internship in video production.

## Student Outcomes

- Demonstrating a working knowledge of the basic functionality of industry standard computer-based video editing programs.
- Executing specific video editing functions such as insert and overwrite edits, selective audio and video track edits, trim edits, split edits, and audio and video level control & mixing, as well as saving and exporting completed videos.
- Determining efficient digital media management techniques while building and executing video editing workflows.
- Assessing and selecting appropriate visual and auditory communication aesthetics when creating video programs.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Department Core: 12 credits

All Journalism and Media Production majors begin with the following courses:

- JMP 1100 - Journalism Fundamentals **Credits: 3**
- JMP 1450 - Media Literacy **Credits: 3**
- JMP 2430 - Introduction to Media Production **Credits: 3**
- JMP 2435 - Multimedia Writing and Production **Credits: 3**

## Video Production Courses: 30 credits

All Video Production majors take the following courses. Students select either Video Thesis or the Advanced Internship in Journalism or Media Production.

- JMP 2400 - Basic Video Editing **Credits: 3**
- JMP 2420 - Basic Video Production **Credits: 3**
- JMP 2800 - Introduction to Audio Production **Credits: 3**
- JMP 3420 - Video Production Process **Credits: 3**

- JMP 3431 - Video Production Design **Credits: 3**
- JMP 3440 - Scriptwriting for Video **Credits: 3**
- JMP 3485 - Motion Graphics I **Credits: 3**
- JMP 4420 - Advanced Video Production **Credits: 3**
- JMP 4430 - Video Production Management **Credits: 3**
  
- JMP 4465 - Video Thesis **Credits: 3**  
or
- JMP 4760 - Advanced Internship in Journalism or Media Production **Credits: 1-12**

## Senior Experience: 3 credits

Students must take a Senior Experience course to meet university guidelines for degree completion.

- JMP 4790 - Senior Seminar **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Department Core	12 credits
Major Required Courses	30 credits
Senior Experience Course	3 credits
Minor and Unrestricted Electives	39-42 credits
<b>Total for the Video Production Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Department of Mathematics and Statistics

The Department of Mathematics and Statistics offers bachelor of science degrees in mathematics and statistical science. The department also offers minors in mathematics and statistics. These minors complement majors such as engineering technology, all sciences, economics, and others.

### Academic Programs

- [Mathematics Major, B.S.](#)
- [Mathematics Minor](#)
- [Statistical Science Major, B.S.](#)
- [Statistics Minor](#)

In addition to the general mathematics major, the department offers a mathematics major in four concentrations encompassing a variety of significant mathematical ideas. These concentrations give students the background for graduate school in theoretical mathematics, as well as the background for both graduate school and employment in mathematically related fields, including applied mathematics,

probability and statistics, and mathematics education. The degree program in statistical science prepares students for graduate school and employment in fields related to statistics and data science.

All students who are considering a major or minor in mathematics or statistical science are expected to consult with faculty for advising. All test score prerequisites for 1000 level MTH courses must be five or fewer years old.

## Mathematics Major, B.S.

[Department of Mathematics and Statistics](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): In-Person

### About the Program

The Department of Mathematics and Statistics offers coursework leading to the bachelor of science degree.

A degree in mathematics is useful in a variety of professional fields including, among many others, business, economics, computer science, government, education, technology, and science. Students are invited to consult with the department concerning career options.

### Student Outcomes

- Program Outcome 1: Graduates know the important mathematical facts related to their chosen concentration.
- Program Outcome 2: Graduates are able to think like mathematicians.
- Program Outcome 3: Graduates are able to write a good proof.
- Program Outcome 4: Graduates are able to explain mathematical ideas clearly.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- All majors in mathematics are required to complete the following basic core of courses (with a required minimum grade of "C-" in each of these courses).

- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- All majors are required to complete a minor unless they are dual majors, or majors receiving concurrent or second degrees, or are completing the Mathematics Education concentration with licensure.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Basic Mathematics Core: 15 credits

- MTH 1410 - Calculus I **Credits: 4**
- MTH 2410 - Calculus II **Credits: 4**
- MTH 2420 - Calculus III **Credits: 4**
- MTH 3100 - Introduction to Mathematical Proofs **Credits: 3**

### Note:

All majors are required to complete a minor unless they are dual majors, or majors receiving concurrent or second degrees, or are completing the Mathematics Education concentration with licensure. Each major is required to take a Senior Experience course. The following mathematics courses have been approved as Senior Experience courses: MTH 4210, MTH 4410, MTH 4480, and

MTL 4630. The course MTH 3240 does not count toward a mathematics major or a mathematics minor.

The student may choose to complete a mathematics major in one of the following concentrations:

- General
- Mathematics Education
- Probability and Statistics
- Theoretical Mathematics
- Applied Mathematics

## General Concentration: 41 credits

The general concentration in mathematics is designed to meet the needs of students with diverse mathematical interests or background, since it allows considerable flexibility among upper division course choices. A grade of "C-" or better is required in each course included in the major.

### Required Courses: 15 credits

- Basic Core: 15 credits

### One of the following five courses: 4 credits

- CS 1050 - Computer Science 1 **Credits: 4**
- CSS 1247 - Introduction to Programming: Visual Basic **Credits: 4**
- MTH 2510 - Computer Programming with Mathematica **Credits: 4**
- MTH 2520 - R Programming **Credits: 4**
- MTH 2540 - Scientific Computing with Python **Credits: 4**

### A minimum of 22 credit hours chosen from:

MTH 2140\*, or any upper-division mathematics courses with the exception of MTH 3240. The 22 credit hours must include at least 20 upper-division hours, at least seven hours of 4000-level courses in mathematics, including at least one Senior Experience course in mathematics, and one of the following sequences:

- MTH 3110 - Abstract Algebra I **Credits: 4**  
and
- MTH 3140 - Linear Algebra **Credits: 4**  
or
- MTH 4110 - Abstract Algebra II **Credits: 3**  
  
or
- MTH 3210 - Probability and Statistics **Credits: 4**  
and
- MTH 3220 - Statistical Methods **Credits: 4**  
  
or
- MTH 3420 - Differential Equations **Credits: 4**

- and
- MTH 3440 - Partial Differential Equations **Credits: 4**
- or
- MTH 4210 - Probability Theory **Credits: 4**
- and
- MTH 4230 - Regression and Computational Statistics **Credits: 4**
- or
- MTH 4410 - Real Analysis I **Credits: 4**
- and
- MTH 4420 - Real Analysis II **Credits: 3**
- or
- MTH 4480 - Numerical Analysis I **Credits: 4**
- and
- MTH 4490 - Numerical Analysis II **Credits: 4**

*\*Only one of the three courses MTH 2140, MTH 3130, and MTH 3140 can be counted.*

### Senior Experience: 4 credits

Senior experience credit counted elsewhere in concentration.

- MTH 4210 - Probability Theory **Credits: 4**
- or
- MTH 4410 - Real Analysis I **Credits: 4**
- or
- MTH 4480 - Numerical Analysis I **Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
General Concentration Courses	26 credits
Senior Experience	counted elsewhere in concentration
Unrestricted Electives	43-49 credits
<b>Total for the Mathematics Major, B.S., General Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Applied Mathematics Concentration: 42-43 credits

The concentration in applied mathematics is designed to meet the needs of the scientific, technical, and computer-based economy and to prepare the student for graduate study. The department has made

every effort to have state-of-the-art technologies and practices available for student use. A grade of "C-" or better is required in each course included in the major.

### Required Courses: 15 credits

- Basic Core: 15

One of the following four courses: 4 credits

- CS 1050 - Computer Science 1 **Credits: 4**
- MTH 2510 - Computer Programming with Mathematica **Credits: 4**
- MTH 2520 - R Programming **Credits: 4**
- MTH 2540 - Scientific Computing with Python **Credits: 4**

All four of the following courses: 16 credits

- MTH 3140 - Linear Algebra **Credits: 4 \***
- MTH 3210 - Probability and Statistics **Credits: 4**
- MTH 3420 - Differential Equations **Credits: 4**
- MTH 4480 - Numerical Analysis I **Credits: 4**

At least one of the following sequences: 7-8 credits

- MTH 3420 - Differential Equations **Credits: 4**
- and
- MTH 3440 - Partial Differential Equations **Credits: 4**
- MTH 3420 - Differential Equations **Credits: 4**
- and
- MTH 3430 - Mathematical Modeling **Credits: 4**
- MTH 4480 - Numerical Analysis I **Credits: 4**
- and
- MTH 4490 - Numerical Analysis II **Credits: 4**
- MTH 4410 - Real Analysis I **Credits: 4**
- and
- MTH 4420 - Real Analysis II **Credits: 3**
- MTH 4410 - Real Analysis I **Credits: 4**
- and
- MTH 4450 - Complex Variables **Credits: 4**

Additional hours from the following for a total of at least 42 hours: 0-3 credits

- MTH 3220 - Statistical Methods **Credits: 4**
- MTH 3230 - Stochastic Processes **Credits: 4**
- MTH 3400 - Chaos and Nonlinear Dynamics **Credits: 4**
- MTH 3430 - Mathematical Modeling **Credits: 4**
- MTH 3440 - Partial Differential Equations **Credits: 4**
- MTH 4210 - Probability Theory **Credits: 4**
- MTH 4410 - Real Analysis I **Credits: 4 \*\***
- MTH 4420 - Real Analysis II **Credits: 3**
- MTH 4450 - Complex Variables **Credits: 4**

- MTH 4490 - Numerical Analysis II **Credits: 4**

At least 26 of the total 42 hours must be at the level of 3000 or above.

Notes:

*\*MTH 3130 and one of the following (MTH 3110 or MTH 3650 or MTH 4110 or MTH 4150 or MTH 4410 or MTH 4660) may substitute for MTH 3140. If MTH 4410 is used for this substitution it can also be used in the other categories.*

*\*\*Students who are considering graduate school in mathematics are strongly encouraged to take this course.*

Senior Experience: 4 credits

Senior experience credit counted elsewhere in concentration.

- MTH 4480 - Numerical Analysis I **Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
Applied Mathematics Concentration Courses	27-28 credits
Senior Experience	counted elsewhere in concentration
Unrestricted Electives	42-43 credits
<b>Total for the Mathematics Major, B.S., Applied Mathematics Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

Probability and Statistics Concentration: 43 credits

The concentration in probability and statistics stresses the application of the principles and methods of statistics and probability to the biological, physical, social sciences, and engineering. This concentration also prepares the students for graduate study in the area of statistics. A grade of "C-" or better is required in all courses included in the major.

Required Courses: 15 credits

Basic Core: 15

All of the following courses: 16 credits

- MTH 3210 - Probability and Statistics **Credits: 4**
- MTH 3220 - Statistical Methods **Credits: 4**
- MTH 4210 - Probability Theory **Credits: 4**
- MTH 4230 - Regression and Computational Statistics **Credits: 4**

One of the following two courses: 4 credits

- MTH 3130 - Applied Methods in Linear Algebra **Credits: 4**
- MTH 3140 - Linear Algebra **Credits: 4**

One of the following four courses: 4 credits

- CS 1050 - Computer Science 1 **Credits: 4**
- MTH 2520 - R Programming **Credits: 4**
- MTH 2540 - Scientific Computing with Python **Credits: 4**
- MTH 3510 - SAS Programming **Credits: 4**

One of the following five courses: 4 credits

- MTH 3230 - Stochastic Processes **Credits: 4**
- MTH 3270 - Data Science **Credits: 4**
- MTH 3430 - Mathematical Modeling **Credits: 4**
- MTH 4250 - Statistical Theory **Credits: 4**
- MTH 4410 - Real Analysis I **Credits: 4**

Senior Experience: 4 credits

Senior experience credit counted elsewhere in concentration.

- MTH 4210 - Probability Theory **Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
Probability and Statistics Concentration Courses	28 credits
Senior Experience	counted elsewhere in major
Unrestricted Electives	41-47 credits
<b>Total for the Mathematics Major, B.S., Probability and Statistics Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Theoretical Mathematics Concentration: 40-41 credits

The concentration in theoretical mathematics prepares the student for further specialized study at the graduate level as well as being adaptable to positions in business, industry, and government. A grade of "C-" or better is required in all courses included in the major.

### Required Courses: 15 credits

- Basic Core: 15

### One of the following six courses: 4 credits

- CS 1050 - Computer Science I **Credits: 4**
- CSS 1247 - Introduction to Programming: Visual Basic **Credits: 4**
- MTH 2510 - Computer Programming with Mathematica **Credits: 4**
- MTH 2520 - R Programming **Credits: 4**
- MTH 2540 - Scientific Computing with Python **Credits: 4**
- MTH 3510 - SAS Programming **Credits: 4**

### All four of the following courses: 15 credits

- MTH 3110 - Abstract Algebra I **Credits: 4**
- MTH 3140 - Linear Algebra **Credits: 4** \*
- MTH 4410 - Real Analysis I **Credits: 4**
- MTH 4420 - Real Analysis II **Credits: 3**

### Two of the following courses: 6-7 credits

- MTH 4110 - Abstract Algebra II **Credits: 3**
- MTH 4150 - Elementary Number Theory **Credits: 3**
- MTH 4450 - Complex Variables **Credits: 4**
- MTH 4660 - Introduction to Topology **Credits: 3**

### Senior Experience: 4 credits

Senior experience credit counted elsewhere in concentration.

- MTH 4410 - Real Analysis I **Credits: 4**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
Theoretical Concentration Requirements	25-26 credits
Senior Experience	counted elsewhere in concentration

Unrestricted Electives	43-50 credits
<b>Total for the Mathematics Major, B.S., Theoretical Mathematics Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Note:

*\*MTH 3130 and one of the following (MTH 3650 or MTH 4150 or MTH 3640) may substitute for MTH 3140.*

## Mathematics Education Concentration:

The Department of Mathematics and Statistics offers a major in Mathematics with a concentration in Mathematics Education through two degree tracks:

### 1) Licensure in Secondary or Middle Mathematics Education:

This track fulfills the requirements for secondary or middle mathematics education Colorado state licensure and does not require a minor. Degree completion requires the courses listed for Mathematics Core, Mathematics Education Concentration, and Educational Foundations and Methods.

2) **Non-Licensure:** For degree completion this track requires the Mathematics Core, Mathematics Education Concentration, and a minor.

Candidates are required to meet with one or more of the faculty advisors in the mathematics education concentration area as well as a secondary education advisor as they plan their academic program. The Mathematics Major with Mathematics Education Concentration requires completion of the courses listed below and satisfaction of the minimum grade requirements. Any of the courses required for the major that were taken more than ten years ago will need to be repeated unless currency of knowledge in the concepts of the course can be demonstrated.

### Student Outcomes

The goals of this program are to provide degree-seeking candidates with:

1. broad-based and coherent preparation in the various disciplines that constitute the mathematical sciences; and
2. the pedagogical knowledge of mathematics needed to begin a career as a middle or high school mathematics teacher. Track 1 will also provide candidates the opportunity to complete state requirements for obtaining Colorado licensure.

### Program Requirements

- A total of 120 semester hours are required for graduation.

- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for Track 1 of this program.
- A minor is required for Track 2 of this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. The recommended General Studies courses listed below can also satisfy additional degree program requirements beyond General Studies.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy; and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools

### Required Courses: 15 credits

- Basic Core: 15

### Senior Experience: 3 credits

- MTL 4630 - Teaching Secondary Mathematics **Credits:** 3

### Concentration Courses: 33-34 credits

- MTH 3110 - Abstract Algebra I **Credits:** 4
- MTH 3140 - Linear Algebra **Credits:** 4 \*
- MTH 3210 - Probability and Statistics **Credits:** 4
- MTH 3470 - Introduction to Discrete Mathematics and Modeling **Credits:** 4
- MTL 3620 - Mathematics of the Secondary Curriculum **Credits:** 4
- MTH 3640 - History of Mathematics **Credits:** 4
- MTH 3650 - Foundations of Geometry **Credits:** 3
- MTL 3850 - STEM Teaching and Learning **Credits:** 2
- MTL 3858 - STEM Teaching and Learning Practicum **Credits:** 1  
Mathematics or Computer Science Elective (Choose ONE of the following):
  - Any 1000 level or higher course with a CS prefix
  - Any programming-specific MTH course such as MTH 2520 - R Programming or MTH 2540 - Scientific Computing with Python
  - Any 3000 or 4000 level MTH course except MTH 3240
  - Any MTL course except MTL 3600
  - Restrictions: MTH 3240 and MTL 3600 do not count as electives.

NOTE: For licensure students, MTL 4630 must be taken concurrently with MTL 3638 and EDS 3280 (courses listed in Educational Foundation and Methods section below).

### Educational Foundations and Methods:

#### Continuation for TRACK 1: Licensure Option

Students seeking teacher licensure at the secondary level with endorsement in mathematics must take the following sequence of courses and be admitted to the teacher education program (see notes below). Students should pay particular attention to corequisites and prerequisites.

*Note: This section not required for Track 2: Non-Licensure option. Students pursuing a Mathematics Major with a Mathematics Education Concentration but who are NOT seeking licensure are not required to complete the following courses but are instead required to complete a minor.*

#### Required Courses: 38 credits

All candidates must obtain admission to the teacher preparation program before they can register for their first field experience course(s) - EDS 3140 - First Field Experience in Secondary Education. See the following page and consult with an education advisor for details: <https://www.msudenver.edu/education/apply/>

Students must also achieve satisfactory scores on the state licensure examination. See your advisor for more information.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4

- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- NOTE: EDS 3130 and EDS 3140 must be taken concurrently.
- REQUIRES provisional admission to the teacher preparation program in the School of Education: More information [HERE](#)
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- NOTE: EDS 3210 and EDS 3240 must be taken concurrently.
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3
- MTL 3638 - Secondary Mathematics Field Experience **Credits:** 2
- NOTE: MTL 4630, MTL 3638, and EDS 3280 must be taken concurrently.
- MTL 4690 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 12
- NOTE: This course requires formal admission to the teacher preparation program.

## Summary of Requirements

### Track 1: Mathematics Education Concentration with Licensure

Note: Track 1 does not require a minor.

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
Concentration Courses	33-34 credits
Track 1: Licensure Option	38 credits
Senior Experience	3 credits
Unrestricted Electives	0-7 credits
<b>Total for the Mathematics Major, B.S., Mathematics Education Concentration, Track 1</b>	<b>Minimum of 120 credits</b>

### Track 2: Mathematics Education Concentration, Non-Licensure

Note: Track 2 requires a minor.

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Basic Core	15 credits
Concentration Courses	33-34 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	32-45 credits
<b>Total for the Mathematics Major, B.S., Mathematics Education Concentration, Track 2</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Mathematics Minor

Only one of three courses, MTH 2140, MTH 3130, or MTH 3140 can be counted. A major that requires a minor in mathematics can specify the courses for such a minor, and the total hours required may exceed the 22 hour total listed below. Please consult the listings included with those majors.

Students must achieve a cumulative GPA of 2.0 or higher in all MSU Denver courses counted in this minor. Students should note that programs differ in the minimum grade required.

## Required Courses

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4

## Electives:

A minimum of 14 hours chosen from CS 1050 and the set of all 2000, 3000, or 4000 level math classes, with the exception of MTH 3240.

- At most one of CS 1050, MTH 2510, MTH 2520, and MTH 3510 may be counted.
- At least 7 hours must be 3000 or 4000 level math classes, not counting MTH 3510.

Electives: 14

Total: 22

## Statistical Science Major, B.S.

## About the Program

The Department of Mathematics and Statistics offers coursework leading to a Bachelor of Science in Statistical Science.

A degree in Statistical Science is useful in a variety of professional fields including but not limited to biostatistics, health sciences, data science, business analytics, and econometrics. Students are invited to consult with department faculty concerning career options. The department strongly recommends that students interested in data science pursue the Computer Science Minor.

## Student Outcomes

- Program Outcome 1: Graduates are able to use statistical methods to analyze data
- Program Outcome 2: Graduates are able to explain statistical ideas clearly
- Program Outcome 3: Graduates understand the foundations of probability and theoretical statistics
- Program Outcome 4: Graduates are able to write computer programs that perform statistical procedures

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree and a minimum overall GPA of 2.00 in these courses. Students should note that programs differ in the minimum grade required.
- Majors in Statistical Science are required to complete a minor unless they are a dual major or a major receiving a concurrent or second degree. Majors in Statistical Science are not allowed to minor in Mathematics. Students who wish to double major in Statistical Science and a major that requires a Mathematics Minor must consult a faculty advisor. A double major in Statistical Science and Mathematics is not allowed.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Courses: 45-46 credits

### All of the following courses: 38 credits

- MTH 1410 - Calculus I **Credits: 4**
- MTH 2410 - Calculus II **Credits: 4**
- MTH 2420 - Calculus III **Credits: 4**
- MTH 2520 - R Programming **Credits: 4**
- MTH 3210 - Probability and Statistics **Credits: 4**
- MTH 3220 - Statistical Methods **Credits: 4**
- MTH 3270 - Data Science **Credits: 4**
- MTH 4230 - Regression and Computational Statistics **Credits: 4**
- MTH 4250 - Statistical Theory **Credits: 4**
- MTH 4290 - Senior Statistics Project **Credits: 2**

### One of the following two courses: 4 credits

- MTH 3130 - Applied Methods in Linear Algebra **Credits: 4**
- MTH 3140 - Linear Algebra **Credits: 4**

### One of the following four courses: 3-4 credits

- CS 3120 - Machine Learning **Credits:** 4
- MTH 3100 - Introduction to Mathematical Proofs **Credits:** 3
- MTH 3230 - Stochastic Processes **Credits:** 4
- MTH 3510 - SAS Programming **Credits:** 4

## Senior Experience: 4 credits

- MTH 4210 - Probability Theory **Credits:** 4

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	45-46 credits
Senior Experience	4 credits
Minor and Unrestricted Electives	34-41 credits
<b>Total for the Statistical Science Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Statistics Minor

Statistics is widely used in science, industry and government. Statistical methods are used to collect, analyze, and interpret data in natural and social sciences, business, and engineering. The courses in the Statistics Minor focus on applied topics that are useful for students in a variety of disciplines.

A grade of "C-" or better is required for each course in this program to count toward the Statistics Minor. Calculus I (MTH 1410) is not listed in the requirements for the Statistics Minor, but this course is a prerequisite for required courses in the minor. A Statistics Minor cannot be combined with a Mathematics Major or Statistical Science Major.

## Prerequisites

- MTH 1410 - Calculus I **Credits:** 4

## Required Courses

- MTH 2140 - Computational Matrix Algebra **Credits:** 2 \*
- MTH 3210 - Probability and Statistics **Credits:** 4
- MTH 3220 - Statistical Methods **Credits:** 4
- MTH 4230 - Regression and Computational Statistics **Credits:** 4

**Subtotal: 14-16 credits**

## Elective

**One elective course must be chosen from among:**

- MTH 2520 - R Programming **Credits:** 4
- MTH 3240 - Environmental Statistics **Credits:** 4
- MTH 3510 - SAS Programming **Credits:** 4
- MTH 4210 - Probability Theory **Credits:** 4
- CS 1050 - Computer Science 1 **Credits:** 4

**Subtotal: 4 credits**

**Total for Statistics Minor: 18-20 credits**

*\* MTH 2140 may be replaced with MTH 3140 or MTH 3130 (4 credits).*

## Department of Modern Languages

The Department of Modern Languages offers a major program in modern languages with concentrations in French, German, and Spanish; minor programs in French, German, and Spanish; and teacher education programs in a variety of combinations. Courses in other foreign languages and in occupational or professional fields are offered in order to meet student and community needs. In addition, the department administers several study abroad programs, as well as certificate programs in basic French, German, and Spanish studies.

## Academic Programs

- [Modern Languages, B.A Option I](#)
- [Modern Languages, B.A. Option II](#)
- [Modern Languages Major, B.A. with K-12 World Languages Teacher Licensure Concentration](#)
- [French Minor](#)
- [German Minor](#)
- [Italian Minor](#)
- [Japanese Minor](#)
- [Spanish Minor](#)

Students are placed in courses at levels appropriate to their ability as indicated by the BYU placement exam.

The above may not be applicable if students have had no professional instruction in their chosen foreign language within the past two years. Students can also take a test if they feel that may have insufficient preparation for the required level or are not sure of that level. Elementary courses do not apply toward the major or minor requirements.

## Certificate Programs Available

- [Bilingual Education Specialist Certificate - Agency/Non-profit](#)
- [Spanish Translation Program Certificate](#)

For more prerequisites and information, call the Department of Modern Languages, 303-615-1122.

Students seeking secondary credentials in French, German, or Spanish must satisfy MSU Denver's teacher preparation program in addition to all of the major requirements. They must also demonstrate sufficient mastery of the target language or languages through an appropriate proficiency exam.

## Bilingual Education Specialist Certificate - Agency/Non-profit

The Bilingual Education Specialist Certificate. - Agency/Non-Profit is designed for advanced and Heritage speakers of Spanish wanting to further develop their cultural and linguistic background in order to effectively communicate with bilingual Spanish-English/English Spanish audiences. It will meet the needs of bilingual students who are, either pursuing a selected major or still in the process of selecting a major through the opportunity to fulfill a broad range of graduation requirements by earning General Studies, upper-division, and applied learning credit.

Students seeking to complete this Certificate must apply through any of the participating departments: Culturally and Linguistically Diverse Education Program (CLD) at the Teacher Education Department; the Department of Modern Languages (MDL); and the Department of Chicana/a Studies (CHS). A minimum grade for courses completed as part of the certificate will be a "C" or better. No more than 40% of the credits used to satisfy certificate requirements may be transfer credits from other institutions.

### Advising and Contact Information

School of Education: CLD Co-Coordinators\*  
College of LAS, Department of Modern Languages: Chairperson\*\*  
College of LAS, Department of Chicana/o Studies: Chairperson\*\*\*

\*Loretta Chavez (CLD) - lchavez26@msudenver.edu

\*Peter Vigil (CLD) - pvigil7@msudenver.edu

\*\*Maria Akrabova (MDL) - makrabou@msudenver.edu

\*\*\*Ramon del Castillo (CHS) - delcastr@msudenver.edu

### Required Courses

- 1. Education and Language Electives (Choose One) Credits: 3**
  - EDS 1001 Educational (In)Equality in the 21st Century Credits: 3
  - CHS 3300 Education of Chicano Children Credits: 3
  - LING 3020 History of the English Language Credits: 3
- 2. Language and Culture Credits: 9**
  - CHS 2000 Living Culture and Language of the Mexican and Chicano Credits: 3
  - SPA 3110 Advanced Conversation Credits: 3

- SPA 3220 Folklore and Culture of the Mexican Southwest Credits: 3

### 3. Multicultural Contexts

#### Credits: 6

- CHS 3100 Social Justice and Activism in the Chicana/o Community Credits: 3
- CLD 3510 Perspectives in Education for Culturally and Linguistically Diverse Learners Credits: 3

**Total Credits: 18**

## French Minor

A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

### Required Courses:

- FRE 2010 - Intermediate French I **Credits: 3**
- FRE 2020 - Intermediate French II **Credits: 3**
- FRE 2110 - French Reading and Conversation **Credits: 3**
- FRE 3010 - French as a Global Language **Credits: 3**
  
- FRE 3110 - Survey of French Literature I **Credits: 3**  
or
- FRE 3120 - Survey of French Literature II **Credits: 3**
  
- FRE 3550 - French Historical Perspectives **Credits: 3**  
or
- FRE 3560 - Contemporary Socio-Cultural Issues **Credits: 3**  
French Electives\*

**Total: 21**

### Note:

*\*Must be a course at the 3000- or 4000-level.*

## German Minor

For students minoring in German, the program provides a foundation in language, culture, literature, and writing. The German minor prepares students with a professional level of oral communication, often sought by international companies and organizations, as well as a thorough understanding of the culture of German-speaking countries. The minor in German is a very flexible program designed to complement various majors. It provides a basis for graduate level reading in many related academic areas.

Students who are considering the German minor in the Department of Modern Languages are expected to consult with faculty for advising.

A letter grade of "C-" or better is necessary in each of the required courses.

## Required Courses

- GER 2010 - Intermediate German I **Credits: 3**
- GER 2020 - Intermediate German II **Credits: 3**
- GER 2110 - German Reading and Conversation **Credits: 3**
- GER 2120 - German Civilization **Credits: 3**

Subtotal: 12 credits

### Select one of the following literature/culture courses:

- GER 3200 - German Culture and Civilization **Credits: 3**
- GER 3210 - Survey of German Literature I **Credits: 3**
- GER 3220 - Survey of German Literature II **Credits: 3**

Subtotal: 3 credits

### Select one of the following skills courses:

- GER 3010 - Third-Year German Conversation **Credits: 3**
- GER 3150 - German Phonetics: Theory and Practice **Credits: 3**
- GER 3300 - Advanced German Grammar **Credits: 3**

Subtotal: 3 credits

### Select one other course from either category.

Subtotal: 3 credits

**Total for Minor: 21 credits**

## Italian Minor

Students pursuing a minor in Italian gain both linguistic proficiency and cultural awareness through the study of Italian language, civilization, literature, art and film. The program is suited to complement a wide array of academic concentrations, including but not limited to language and literature, cultural studies, business and international relations, hospitality and food, music and opera, art and design.

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

- ITA 2010 - Intermediate Italian I **Credits: 3**
- ITA 2020 - Intermediate Italian II **Credits: 3**
- ITA 2110 - Italian Reading and Conversation **Credits: 3**
- ITA 3140 - Advanced Italian Grammar **Credits: 3**
- ITA 3250 - Readings in Italian Literature **Credits: 3**

**Subtotal: 15 credits**

## Elective Courses

Select two of the following courses on Italian culture:

- ITA 3010 - Italian Culture Through Film **Credits: 3**
- ITA 3110 - Advanced Conversation **Credits: 3**
- ITA 3310 - Contemporary Italy: Culture and Society **Credits: 3**

**Subtotal: 6 credits**

**Total for Minor: 21 credits**

## Japanese Minor

Students pursuing a minor in Japanese gain both linguistic proficiency and cultural awareness through the study of Japanese language, civilization, literature, art and film. The program is suited to complement a wide array of academic concentrations, including but not limited to language and literature, cultural studies, business and international relations, hospitality and food, music, theatre, art and design.

A grade of C- or better is required for each course in this program to count towards the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

- JPS 2010 - Intermediate Japanese I **Credits: 5**
- JPS 2020 - Intermediate Japanese II **Credits: 5**
- JPS 2110 - Conversational Japanese I **Credits: 3**
- JPS 2120 - Kanji I **Credits: 3**

**Subtotal: 16 credit hours**

## Elective Courses (choose two)

- JPS 3110 - Conversational Japanese II **Credits: 3**
- JPS 3120 - Kanji II **Credits: 3**
- JPS 3200 - Japanese through Media Culture **Credits: 3**
- JPS 3210 - Advanced Japanese: Major Topics **Credits: 3**

**Subtotal: 6 credit hours**

**Total for the minor: 22 credit hours**

## Modern Languages, B.A Option I

## About the Program

The Bachelor of Arts in Modern Languages degree may be completed by selecting either Option I or Option II. Option I is a single-language option in either French or Spanish. Option II is a dual-language option with primary language either French or Spanish, and a choice of secondary language (French, German, Italian, Japanese or Spanish). Students are advised into intermediate and advanced classes in each language on the basis of individual background and need. A grade of "C-" or better is required for each course in this program to count toward the Bachelor of Arts degree in Modern Languages. Students should note that programs differ in the minimum grade required.

Modern Languages, B.A. Option I requires a minimum of 42 hours in one of two following languages: French or Spanish. Students pursuing this option for the degree in Modern Languages need a minor.

For the language emphasized, either French or Spanish, students must complete a minimum of 27 hours of coursework and the three (3) credit hour Senior Experience after the core curriculum of lower-division language classes. No more than 12 hours may be taken at the 2000 level.

## Student Outcomes

By the end of their studies, students earning a B.A. in Modern languages will have at least working fluency in their primary language and will be able to:

- Handle both routine and unfamiliar situations in both formal and informal settings.
- Adjust responses in the target language to respond to a unique circumstance or question.
- Make specific recommendations or suggestions and give detailed explanations and precise descriptions.
- Resolve problems or justify an opinion, argument, policy or procedure.
- Communicate with high enough accuracy to be understood by any speaker of the language.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** CHI 1010 - Elementary Chinese I / FRE 1010 - Elementary French I / GER 1010 - Elementary German I / ITA 1010 - Elementary Italian I / JPS 1010 - Elementary Japanese I / SPA 1010 - Elementary Spanish I or ASL 1020 - American Sign Language II
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
  - **Recommended:** CHI 1020 - Elementary Chinese II / FRE 1020 - Elementary French II / GER 1020 - Elementary German II / ITA 1020 - Elementary Italian II / JPS 1020 - Elementary Japanese II / SPA 1020 - Elementary Spanish II
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)
  - **Recommended:** CHI 1020 / FRE 1020 / GER 1020 / ITA 1020 / JPS 1020 / SPA 1020

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Option I: French Concentration

Required lower division courses: 12 credits

- FRE 2010 - Intermediate French I **Credits: 3**
- FRE 2020 - Intermediate French II **Credits: 3**
- FRE 2110 - French Reading and Conversation **Credits: 3**
- FRE 3010 - French as a Global Language **Credits: 3**

Advanced Language courses: 12 credits

Advanced Language on the 3000 level: 9 credits

- FRE 3150 - French Phonetics: Theory and Practice **Credits: 3**
- FRE 3310 - Advanced French Composition and Grammar **Credits: 3**
- FRE 3320 - Cinema in French for Advanced Conversation **Credits: 3**

Advanced Language on the 4000 level: 3 credits

- FRE 4540 - Literature, Culture, and Translation **Credits: 3**

Culture and Literature courses: 18 credits

Culture courses: 6 credits

- FRE 3550 - French Historical Perspectives **Credits: 3**
- FRE 3560 - Contemporary Socio-Cultural Issues **Credits: 3**

Required Literature courses: 6 credits

- FRE 3110 - Survey of French Literature I **Credits: 3**
- FRE 3120 - Survey of French Literature II **Credits: 3**

Choose any two courses: 6 credits

- FRE 4520 - Modern French Theater **Credits: 3**
- FRE 4530 - The French Novel **Credits: 3**
- FRE 4750 - Senior Seminar in French Studies **Credits: 3**

Senior Experience: 3 credits

Select one of the two listed courses. Note that the credits for Senior Experience requirement are counted in the major.

- FRE 4520 - Modern French Theater **Credits: 3**
- FRE 4530 - The French Novel **Credits: 3**

Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
French Concentration Courses	42 credits
Senior Experience	counted in major
Minor and Unrestricted Electives	42-45 credits
<b>Total for the Modern Languages Major, B.A. Option I: French</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

Option I: Spanish Concentration:

Required lower division courses: 12 credits

- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**

Advanced Language courses: 12 credits

Advanced Language on the 3000 level: 6 credits

- SPA 3110 - Advanced Conversation **Credits: 3**
- SPA 3140 - Advanced Composition **Credits: 3**

Advanced Language on the 4000 level: 6 credits

- SPA 4010 - Advanced Spanish Writing and Grammar I **Credits: 3**
- SPA 4020 - Advanced Spanish Writing and Grammar II **Credits: 3**

Culture and Literature courses: 15 credits

Culture courses: 6 credits

Choose one of the following two courses:

- SPA 3050 - Cultural Crossroads: France, Germany, Spain **Credits: 3**
- SPA 3200 - Culture and Civilization of Spain **Credits: 3**

Choose one course

Note: SPA 3150 may be used as a substitute for SPA - 3050 and SPA - 3200.

- SPA 3150 - Spanish Phonetics: Theory and Practice  
**Credits: 3**
- SPA 3210 - Spanish-American Culture and Civilization  
**Credits: 3**
- SPA 3220 - Folklore and Culture of the Mexican Southwest  
**Credits: 3**
- SPA 3600 - Latin American Cinema **Credits: 3**

Literature: 9 credits

- SPA 3250 - Introduction to Literary Studies in Spanish  
**Credits: 3**

Choose any two courses:

- SPA 3400 - Survey of Spanish Literature I **Credits: 3**
- SPA 3410 - Survey of Spanish Literature II **Credits: 3**
- SPA 3510 - Survey of Latin American Literature **Credits: 3**
- SPA 4110 - Contemporary Spanish Literature **Credits: 3**
- SPA 4120 - Contemporary Latin-American Literature  
**Credits: 3**

Senior Experience: 3 credits

Choose one course:

- SPA 4200 - Spanish-American Essay: 19th and 20th Centuries **Credits: 3**
- SPA 4310 - History of the Spanish Language **Credits: 3**  
Student Teaching will satisfy this requirement.

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Spanish Concentration Courses	39 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-45 credits
Total for the Modern Languages Major, B.A. Option I: Spanish	120 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Modern Languages Major with K-12 Licensure

Please review the K-12 Foreign Language Licensure section of the Catalog for details on this teacher preparation program.

Modern Languages Major, B.A. with K-12 World Languages Teacher Licensure Concentration

## Modern Languages, B.A. Option II

[Department of Modern](#)

[Languages](#)

[College of Letters, Arts and](#)

[Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Bachelor of Arts in Modern Languages degree may be completed by selecting either Option I or Option II. Option I is a single-language option in either French or Spanish. Option II is a dual-language option with primary language either French or Spanish, and a choice of secondary language (French, German, Italian, Japanese or Spanish). Students are advised into intermediate and advanced classes in each language on the basis of individual background and need. A grade of "C-" or better is required for each course in this program to count toward the Bachelor of Arts degree in Modern Languages. Students should note that programs differ in the minimum grade required.

The Modern Languages Major Option II requires a minimum of 60 semester hours in a combination of two modern languages: a primary language (French or Spanish) and a secondary language (French, German, Italian, Japanese or Spanish). Students pursuing this option for the degree of Modern Languages do not need a minor.

For the primary language emphasized, either French or Spanish, students must complete a minimum of 42 semester hours of coursework at the 2000-level and above. No more than 12 semester hours may be taken at the 2000 level.

To complete the 60-semester-hour requirement, students must take at least 18 semester hours at the 2000-level or above in a second language.

## Student Outcomes

- **PRIMARY LANGUAGE.** By the end of their studies, students earning a B.A. in Modern languages will have at least working fluency in their primary language and will be able to:
  - Handle both routine and unfamiliar situations in both formal and informal settings.
  - Adjust responses in the target language to respond to a unique circumstance or question.
  - Make specific recommendations or suggestions and give detailed explanations and precise descriptions.
  - Resolve problems or justify an opinion, argument, policy or procedure.

- Communicate with high enough accuracy to be understood by any speaker of the language.
- SECONDARY LANGUAGE. By the end of their studies, students earning a B.A. in Modern Languages will have at least functional fluency in their secondary language and will be able to:
  - Function in the language when completing familiar routines and tasks in predictable situations.
  - Describe events, experiences, products, services or procedures.
  - Complete formulaic documents and transactions.
  - Provide scripted presentations and answer expected, frequently asked questions.
  - Communicate in a way that a sympathetic speaker of the language will have few difficulties understanding, despite occasional grammar errors or mispronunciation.
- **Recommended:** CHI 1020 - Elementary Chinese II / FRE 1020 - Elementary French II / GER 1020 - Elementary German II / ITA 1020 - Elementary Italian II / JPS 1020 - Elementary Japanese II / SPA 1020 - Elementary Spanish II
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)
  - **Recommended:** CHI 1020 / FRE 1020 / GER 1020 / ITA 1020 / JPS 1020 / JPS 1020

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Option II: French Concentration

- 42 cr. hours of French, including Senior Experience, as outlined in Modern Languages, B.A Option I
- 18 cr. hours in a secondary language, as outlined below.

### Option II: Spanish Concentration

- 42 cr. hours of Spanish, including Senior Experience, as outlined in Modern Languages, B.A Option I
- 18 cr. hours in a secondary language, as outlined below.

### French

- FRE 2010 - Intermediate French I **Credits: 3**
- FRE 2020 - Intermediate French II **Credits: 3**
- FRE 2110 - French Reading and Conversation **Credits: 3**
- FRE 3010 - French as a Global Language **Credits: 3**
- French electives (upper division) **Credits: 6**

**Subtotal: 18 credits**

### German

- GER 2010 - Intermediate German I **Credits: 3**
- GER 2020 - Intermediate German II **Credits: 3**

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
  - **Recommended:** CHI 1010 - Elementary Chinese I / FRE 1010 - Elementary French I / GER 1010 - Elementary German I / ITA 1010 - Elementary Italian I / JPS 1010 - Elementary Japanese I / SPA 1010 - Elementary Spanish I or ASL 1020 - American Sign Language II
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)

- GER 2110 - German Reading and Conversation **Credits: 3**
- GER 2120 - German Civilization **Credits: 3**
- German electives (upper division) **Credits: 6**

**Subtotal: 18 credits**

## Italian

- ITA 2010 - Intermediate Italian I **Credits: 3**
- ITA 2020 - Intermediate Italian II **Credits: 3**
- ITA 2110 - Italian Reading and Conversation **Credits: 3**
- ITA 3140 - Advanced Italian Grammar **Credits: 3**
- Italian Electives (upper division) **Credits: 6**

**Subtotal: 18 credits**

## Japanese

- JPS 2010 - Intermediate Japanese I **Credits: 5**
- JPS 2020 - Intermediate Japanese II **Credits: 5**
- JPS 2110 - Conversational Japanese I **Credits: 3**
- JPS 2120 - Kanji I **Credits: 3**
- Japanese electives (upper division) **Credits: 3**

**Subtotal: 19 credits**

## Spanish

- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**
- Spanish electives (upper division) **Credits: 6**

**Subtotal: 18 credits**

## Notes

The courses required to complete the remaining 60 semester hours must be taken with departmental approval.

Students preparing for teacher licensure may include the three (3) credits of MDL 4960 *Teaching Foreign Languages in K-12* in the 42 semester hours if they so desire.

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits

Option I French with Second Language or Option I Spanish with Second Language	60 credits
Senior Experience	counted elsewhere in major
Unrestricted Electives	24-27 credits
<b>Total for the Modern Languages Major, B.A. Option II</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Modern Languages Major, Option II with K-12 Licensure

Please review the following program page for details on this teacher preparation program.

Modern Languages Major, B.A. with K-12 World Languages  
Teacher Licensure Concentration

## Modern Languages Major, B.A. with K-12 World Languages Teacher Licensure Concentration

[Department of Modern Languages](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## Modern Languages Major Option I and Option II with K-12 World Languages Teacher Licensure Concentration

Degree-seeking candidates who wish to obtain Colorado licensure for K-12 World Languages must earn a Bachelor of Arts (B.A.) degree in Modern Languages. Candidates must complete either Option I or Option II of this major with a primary language of French or Spanish. The curriculum focuses on the current Colorado content standards for teachers of World Languages and prepares licensure candidates to pass the required content test. Students completing the K-12 licensure coursework are not required to have a minor.

## Student Outcomes

- Demonstrate appropriate level of language proficiency in all areas of communication, with a strong emphasis on oral communication.
- Demonstrate understanding of the numerous areas of language studies, including cultures, linguistics, and literatures.

- Apply skills and knowledge from language studies to other disciplines, such as literacy and mathematics, particularly in field experiences and during student teaching.
- Demonstrate understanding of language acquisition and implement this knowledge during student teaching through the development of learning environments that are linguistically and culturally rich.
- Demonstrate an understanding of child and adolescent development, context of instruction, learners' social and emotional needs, and individual differences. Apply this knowledge during student teaching to create inclusive, supportive learning environments that enhance diversity, equity, and inclusion.
- Demonstrate an understanding of the standards for language learning issued by national organization, state of Colorado, and school district. Standards are used during student teaching to inform proficiency targets for learners, pedagogical choices, and materials development.
- Develop assessments of learners' communication skills and understanding of cultural and literary products, practices, and perspectives. Analyze results of assessments to modify instructional practice to meet learners' needs, and report assessment results to stakeholders.
- Engage in professional development activities to reflect on practice of language teaching as well as to continuously improve their own linguistic, cultural, and pedagogical competence.
- Advocate for the role and value of language learning as a means to prepare students to interact in a global community and become lifelong learners.
- Use reflection and inquiry to ensure the responsibilities of student teaching are executed with ethical conduct, professionalism, and leadership for the benefit of students, colleagues, and all stakeholders.

Outcomes based on: American Council on the Teaching of Foreign Languages. (2015). ACTFL/CAEP program standards for the preparation of foreign language teachers.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree and teacher licensure. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement (see below for recommended courses which are also part of the degree program). Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Modern Language Sequence Options

### Option I - French Concentration with K-12

Licensure: 43 credits

#### French Concentration Courses

- FRE 2010 - Intermediate French I **Credits:** 3
- FRE 2020 - Intermediate French II **Credits:** 3
- FRE 2110 - French Reading and Conversation **Credits:** 3
- FRE 3010 - French as a Global Language **Credits:** 3
- FRE 3110 - Survey of French Literature I **Credits:** 3
- FRE 3120 - Survey of French Literature II **Credits:** 3
- FRE 3150 - French Phonetics: Theory and Practice **Credits:** 3
- FRE 3310 - Advanced French Composition and Grammar **Credits:** 3

- FRE 3320 - Cinema in French for Advanced Conversation **Credits: 3**
- FRE 3550 - French Historical Perspectives **Credits: 3**
- FRE 3560 - Contemporary Socio-Cultural Issues **Credits: 3**
- MDL 4960 - Teaching Foreign Languages in K-12 **Credits: 3**
- MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits: 1**

**Select any two of the following:**

- FRE 4520 - Modern French Theater **Credits: 3**
- FRE 4530 - The French Novel **Credits: 3**
- FRE 4750 - Senior Seminar in French Studies **Credits: 3**

**Option II - French Concentration with K-12 Licensure and a Second Language: 58-59 credits**

Students must take the French core courses and select German, Italian, Japanese, or Spanish for a second language.

**Option II - French Core: 40 credits**

- FRE 2010 - Intermediate French I **Credits: 3**
- FRE 2020 - Intermediate French II **Credits: 3**
- FRE 2110 - French Reading and Conversation **Credits: 3**
- FRE 3010 - French as a Global Language **Credits: 3**
- FRE 3110 - Survey of French Literature I **Credits: 3**
- FRE 3120 - Survey of French Literature II **Credits: 3**
- FRE 3150 - French Phonetics: Theory and Practice **Credits: 3**
- FRE 3310 - Advanced French Composition and Grammar **Credits: 3**
- FRE 3320 - Cinema in French for Advanced Conversation **Credits: 3**
- FRE 3550 - French Historical Perspectives **Credits: 3**
- FRE 3560 - Contemporary Socio-Cultural Issues **Credits: 3**
- MDL 4960 - Teaching Foreign Languages in K-12 **Credits: 3**
- MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits: 1**

**Take one of the following courses:**

- FRE 4520 - Modern French Theater **Credits: 3**
- FRE 4530 - The French Novel **Credits: 3**
- FRE 4750 - Senior Seminar in French Studies **Credits: 3**

**Option II - Second Language: 18-19 credits**

Select a second language below.

**Second Language - German**

- GER 2010 - Intermediate German I **Credits: 3**

- GER 2020 - Intermediate German II **Credits: 3**
- GER 2110 - German Reading and Conversation **Credits: 3**
- GER 2120 - German Civilization **Credits: 3**
- German Electives (Upper Division) 6 credits
- German Second Language total credits: 18**

**Second Language - Italian**

- ITA 2010 - Intermediate Italian I **Credits: 3**
- ITA 2020 - Intermediate Italian II **Credits: 3**
- ITA 2110 - Italian Reading and Conversation **Credits: 3**
- ITA 3140 - Advanced Italian Grammar **Credits: 3**
- Italian Electives (Upper Division) 6 credits
- Italian Second Language total credits: 18**

**Second Language - Japanese**

- JPS 2010 - Intermediate Japanese I **Credits: 5**
- JPS 2020 - Intermediate Japanese II **Credits: 5**
- JPS 2110 - Conversational Japanese I **Credits: 3**
- JPS 2120 - Kanji I **Credits: 3**
- Japanese Electives (Upper Division) 3 credits
- Japanese Second Language total credits: 19**

**Second Language - Spanish**

- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**
- Spanish Electives (Upper Division) 6 credits
- Spanish Second Language total credits: 18**

**Option I - Spanish Concentration with K-12 Licensure: 43 credits**

**Spanish Concentration Courses**

- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**
- SPA 3110 - Advanced Conversation **Credits: 3**
- SPA 3140 - Advanced Composition **Credits: 3**
- SPA 3150 - Spanish Phonetics: Theory and Practice **Credits: 3**
- SPA 3200 - Culture and Civilization of Spain **Credits: 3**  
or
- SPA 3210 - Spanish-American Culture and Civilization **Credits: 3**  
or
- SPA 3220 - Folklore and Culture of the Mexican Southwest **Credits: 3**

- SPA 3250 - Introduction to Literary Studies in Spanish **Credits: 3**
- SPA 3400 - Survey of Spanish Literature I **Credits: 3**  
or
- SPA 3410 - Survey of Spanish Literature II **Credits: 3**
- SPA 4010 - Advanced Spanish Writing and Grammar I **Credits: 3**
- SPA 4020 - Advanced Spanish Writing and Grammar II **Credits: 3**
- SPA 4110 - Contemporary Spanish Literature **Credits: 3**  
or
- SPA 4120 - Contemporary Latin-American Literature **Credits: 3**  
or
- SPA 4310 - History of the Spanish Language **Credits: 3**
- MDL 4960 - Teaching Foreign Languages in K-12 **Credits: 3**
- MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits: 1**

### Option II - Spanish Concentration with K-12 Licensure and Second Language: 58-59 credits

Students must take the Spanish Core courses and select French, German, Italian, or Japanese for a second language.

### Option II - Spanish Core: 40 credits

#### Take each of the following courses:

- MDL 4960 - Teaching Foreign Languages in K-12 **Credits: 3**
- MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits: 1**
- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**
- SPA 3110 - Advanced Conversation **Credits: 3**
- SPA 3140 - Advanced Composition **Credits: 3**
- SPA 3250 - Introduction to Literary Studies in Spanish **Credits: 3**
- SPA 4010 - Advanced Spanish Writing and Grammar I **Credits: 3**
- SPA 4020 - Advanced Spanish Writing and Grammar II **Credits: 3**

#### Take one of the following courses:

- **Recommended:** SPA 3150 - Spanish Phonetics: Theory and Practice **Credits: 3**
- SPA 3200 - Culture and Civilization of Spain **Credits: 3**
- SPA 3210 - Spanish-American Culture and Civilization **Credits: 3**
- SPA 3220 - Folklore and Culture of the Mexican Southwest **Credits: 3**

#### Take one of the following courses:

- SPA 3400 - Survey of Spanish Literature I **Credits: 3**
  - SPA 3410 - Survey of Spanish Literature II **Credits: 3**
- #### Take one of the following courses:
- SPA 4110 - Contemporary Spanish Literature **Credits: 3**
  - SPA 4120 - Contemporary Latin-American Literature **Credits: 3**
  - SPA 4310 - History of the Spanish Language **Credits: 3**

### Option II - Second Language: 18-19 credits

Select a second language below.

#### Second Language - French

- FRE 2010 - Intermediate French I **Credits: 3**
  - FRE 2020 - Intermediate French II **Credits: 3**
  - FRE 2110 - French Reading and Conversation **Credits: 3**
  - FRE 3010 - French as a Global Language **Credits: 3**
  - French Electives (Upper Division) 6 credits
- French Second Language total credits: 18**

#### Second Language - German

- GER 2010 - Intermediate German I **Credits: 3**
  - GER 2020 - Intermediate German II **Credits: 3**
  - GER 2110 - German Reading and Conversation **Credits: 3**
  - GER 2120 - German Civilization **Credits: 3**
  - German Electives (Upper Division) 6 credits
- German Second Language total credits: 18**

#### Second Language - Italian

- ITA 2010 - Intermediate Italian I **Credits: 3**
  - ITA 2020 - Intermediate Italian II **Credits: 3**
  - ITA 2110 - Italian Reading and Conversation **Credits: 3**
  - ITA 3140 - Advanced Italian Grammar **Credits: 3**
  - Italian Electives (Upper Division) 6 credits
- Italian Second Language total credits: 18**

#### Second Language - Japanese

- JPS 2010 - Intermediate Japanese I **Credits: 5**
  - JPS 2020 - Intermediate Japanese II **Credits: 5**
  - JPS 2110 - Conversational Japanese I **Credits: 3**
  - JPS 2120 - Kanji I **Credits: 3**
  - Japanese Electives (Upper Division) 3 credits
- Japanese Second Language total credits: 19**

### Foundation and Methods for K-12 Education: 28 credits

#### Foundation Course

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***

- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**  
**Methods Courses**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1 \*\***
- EDU 3444 - Instructional and Assessment Practices in Differentiated Classrooms **Credits: 3 \*\***
- EDU 3445 - Field Experience: Assessment Practices in Differentiated Classrooms **Credits: 1 \*\***
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3 \*\***

*\* Requires at least provisional admission to the School of Education*

*\*\*Requires formal admission to the School of Education*

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar.

## Summary of Requirements

<b>Option I Summary</b>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
French or Spanish Option I Major	43 credits
Foundation and Methods for K-12 Education	28 credits
Senior Experience	12 credits
Unrestricted Electives	1-10 credits
<b>Modern Languages Option I Major, B.A. with K-12 World Languages Licensure</b>	<b>120 credits</b>

<b>Option II Summary</b>	
General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
French or Spanish Option II Major Core	40 credits

Option II Second Language	18-19 credits
Foundation and Methods for K-12 Education	28 credits
Senior Experience	12 credits
<b>Modern Languages Option II Major, B.A. with K-12 World Languages Licensure</b>	<b>Minimum of 125 credits</b>

**Any General Studies course may count in multiple categories, however, credits for courses may only count once towards the 120 credit degree total. It is therefore important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Spanish Minor

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

- SPA 2010 - Intermediate Spanish I **Credits: 3**
- SPA 2020 - Intermediate Spanish II **Credits: 3**
- SPA 2110 - Spanish Reading and Communication I **Credits: 3**
- SPA 2120 - Spanish Reading and Communication II **Credits: 3**
- SPA 3110 - Advanced Conversation **Credits: 3**
- SPA 3250 - Introduction to Literary Studies in Spanish **Credits: 3**

Select one of the following literature/culture courses:

- SPA 3200 - Culture and Civilization of Spain **Credits: 3**  
or
- SPA 3210 - Spanish-American Culture and Civilization **Credits: 3**  
or
- SPA 3220 - Folklore and Culture of the Mexican Southwest **Credits: 3**

**Total: 21 credits**

## Spanish Translation Program Certificate

Students must complete each course in this certificate program with a grade of "B" or better. The courses cannot be taken pass/fail.

## Courses:

- SPA 3140 - Advanced Composition **Credits: 3**
- SPA 4010 - Advanced Spanish Writing and Grammar I **Credits: 3**
- SPA 4015 - Introduction to Spanish Translation I **Credits: 3**

- SPA 4020 - Advanced Spanish Writing and Grammar II  
**Credits:** 3
- SPA 4025 - Introduction to Spanish Translation II **Credits:**  
3

## Department of Music

Metropolitan State University of Denver is an accredited, institutional member of the National Association of Schools of Music. The Department of Music offers a Bachelor of Music degree with concentrations in performance and composition, a Bachelor of Music Education degree, a Bachelor of Arts in Music degree with various concentrations, and a minor in music. The Bachelor of Music and Bachelor of Music Education degrees are professional degree programs designed for students wishing to prepare themselves for careers as performers, composers, or teachers or for further graduate study; these degrees do not require a minor. The Bachelor of Arts in Music degree is a non-professional degree with a liberal arts focus. Some BA concentrations require a minor.

- [Music Major, B.A.](#)
- [Music Major, B.A.: Music Theory](#)
- [Music Minor](#)

The department also offers courses designed for students wishing to enhance their general understanding and enjoyment of music. In addition, students from all areas of the University are encouraged to participate in the wide variety of large and small music ensembles including band, orchestra, choir, jazz ensembles, world music ensembles and chamber music.

### Bachelor of Music (B.M.)

- [Music Major, B.M.](#)

The Bachelor of Music degree prepares students for further graduate studies, or for careers as performers, composers, or private studio teachers. Concentrations are available in performance and composition. To be admitted to this program, students must demonstrate the capability of developing a high level of musicianship. For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720, Private Instruction II. For admission to the composition concentration, students must pass a review of their composition portfolio upon completion of MUS 3650, Basic Techniques of Composition.

### Bachelor of Music Education (B.M.E.)

- [Music Education, B.M.E.](#)

The Bachelor of Music Education degree prepares students for careers teaching instrumental, choral, and general music in K-12 schools, and satisfies the requirements for K-12 licensure in the State of Colorado. Students must apply for and be granted admission to the music education program prior to any enrollment in music education methods courses, supervised field experiences, and student teaching. Further information may be obtained in the *Department of Music*

*Student Handbook*. Students seeking this degree must satisfy all applicable requirements of the Department of Music and the School of Professional Studies teacher education program. To become licensed, recipients of the Bachelor of Music Education degree must satisfy all applicable requirements of the teacher education and licensure programs in the School of Education. This degree program is approved by the Colorado State Department of Education and has full accreditation by the Council for the Accreditation of Educator Preparation.

### General Requirements

Students must attain a grade of "C-" or above in all music courses required for any major or minor. Students must also attain a grade of "Satisfactory" for each semester of required recital attendance. Further information, including examination policies, procedures, and requirements, is provided in the departmental publication titled *Department of Music Student Handbook*. All music majors and minors should familiarize themselves with this publication, which can be found on the department's website, [msudenver.edu/music](http://msudenver.edu/music).

All students (including transfer students) wishing to major or minor in music should be prepared to take a placement assessment in music theory and to perform an audition in their primary performance area. For placement and audition appointments, contact the Department of Music at least two weeks before the beginning of the semester. Transfer students and students returning to MSU Denver should note that all prior course credits in music theory, music history, individual instruction, class piano, composition, and conducting must be evaluated in order to be accepted. Further information may be obtained in the *Department of Music Student Handbook*.

### Music Major, B.A.

[Department of Music](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Bachelor of Arts degree with concentrations in Music offers vigorous study of music alongside a strong liberal arts education, equipping students with versatile skills that are highly valued in the broad spectrum of music-related careers. The Bachelor of Arts degree in Music requires a minor in a secondary area of interest, allowing students to customize their degree according to personal career goals.

### Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces

- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
 Oral Communication (3 credits)  
 Quantitative Literacy (3 credits)  
 Arts and Humanities (6 credits)  
 Historical (3 credits)  
 Natural and Physical Sciences (6 credits)  
 Social and Behavioral Sciences (6 credits)  
 Global Diversity (0 or 3 credits)\*\*

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Core Requirements: 32 credits

The following courses are required for all music majors:

MUS 0020 - Recital Attendance **Credits:** 0 \*  
 MUS 1110 - Music Theory I **Credits:** 3  
 MUS 1120 - Music Theory Lab I **Credits:** 1  
 MUS 1130 - Music Theory II **Credits:** 3  
 MUS 1140 - Music Theory Lab II **Credits:** 1  
 MUS 161B - Class Piano I **Credits:** 1 \*\*  
 MUS 162B - Class Piano II **Credits:** 1 \*\*  
 MUS 1710 - Private Instruction I **Credits:** 2 (primary performance area)  
 MUS 1720 - Private Instruction II **Credits:** 2 (primary performance area)  
 MUS 2110 - Music Theory III **Credits:** 3  
 MUS 2120 - Music Theory Lab III **Credits:** 1  
 MUS 2130 - Music Theory IV **Credits:** 3  
 MUS 2140 - Music Theory Lab IV **Credits:** 1  
 MUS 3050 - Musics of the World **Credits:** 3  
 MUS 3210 - Western Music History I **Credits:** 3  
 MUS 3220 - Western Music History II **Credits:** 3

Select one credit hour from the following options:

MUS 3818 - Mariachi Ensemble **Credits:** 1  
 MUS 3834 - Gamelan Ensemble **Credits:** 1  
 MUS 3835 - African Drum and Dance Ensemble **Credits:** 1

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

*\*\*Students whose primary instrument is piano must substitute MUS 261B and MUS 262B, Class Piano III and IV, for MUS 161B and MUS 162B, Class Piano I and II, in the core requirements listed above.*

## Specific Degree Requirements: 11 credits

MUS 0020 - Recital Attendance **Credits:** 0 (two additional semesters)\*  
 MUS 1650 - Basic Music Technology **Credits:** 1  
 MUS 2710 - Private Instruction III **Credits:** 2 (Primary Performance Area)  
 MUS 2720 - Private Instruction IV **Credits:** 2 (Primary Performance Area)  
 Upper-division elective in Music Theory, History, Literature or Pedagogy (3 hours)  
 MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

## Ensembles: 6 credits

Students enrolled in private lessons must enroll in the appropriate major ensemble during each semester of individual instruction.

Choose five hours from the following:

MUS 3828 - Jazz Ensemble **Credits:** 1

MUS 3829 - Jazz Combo **Credits:** 1

*For students whose primary instrument is a jazz instrument, the major ensemble is MUS 3828: Jazz Ensemble or MUS 3829: Jazz Chamber Ensemble, as assigned by the Director of Jazz Studies.*

MUS 3820 - Chorale **Credits:** 1

MUS 3821 - University Treble Choir **Credits:** 1

MUS 3822 - University Basso Choir **Credits:** 1

*For students whose primary instrument is voice, the major ensemble is choir (MUS 3820: Chorale, MUS 3821: University Treble Choir, or MUS 3822: University Basso Choir) as assigned by the Director of Choral Activities.*

MUS 3824 - Symphonic Band **Credits:** 1

MUS 3825 - Wind Ensemble **Credits:** 1

*For students whose primary instrument is woodwinds, brass, or percussion, the major ensemble is band (MUS 3825: Wind Ensemble or MUS 3824: Symphonic Band) as assigned by the Director of Band Activities.*

MUS 3817 - String Sinfonietta **Credits:** 1

MUS 3827 - Symphony Orchestra **Credits:** 1

*For students whose primary instrument is strings, the major ensemble is orchestra (MUS 3817: String Sinfonietta or MUS 3827: Symphony Orchestra), as assigned by the Director of Orchestral Activities.*

MUS 3830 - Guitar Ensemble **Credits:** 1

*For students whose primary instrument is guitar, the major ensemble is MUS 3830: Guitar Ensemble.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

## Ensembles: Primary instrument in Piano and Organ: 6 credits

Choose five hours from the following:

MUS 3817 - String Sinfonietta **Credits:** 1

MUS 3820 - Chorale **Credits:** 1

MUS 3821 - University Treble Choir **Credits:** 1

MUS 3822 - University Basso Choir **Credits:** 1

MUS 3824 - Symphonic Band **Credits:** 1

MUS 3825 - Wind Ensemble **Credits:** 1

MUS 3827 - Symphony Orchestra **Credits:** 1

*For students whose primary instrument is piano or organ, the major ensemble is choir (MUS 3820: Chorale (audition), MUS 3821: University Treble Choir (choral experience) or MUS 3822: University Basso Choir (choral experience), band (MUS 3825: Wind Ensemble (audition) or MUS 3824: Symphonic Band) or orchestra (MUS 3817: String Sinfonietta or MUS 3827: Symphony Orchestra), as assigned by the Director of Choral Activities, the Director of Band Activities, or the Director of Orchestral Activities.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

## Senior Experience: 3 credits

MUS 4950 - Senior Project **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Requirements	32 credits
Specific Degree Requirements	11 credits
Ensembles or Ensembles: Primary Instrument in Piano and Organ	6 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	32-41 credits
<b>Total for the Music Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Music Major, B.A.: Music Theory

[Department of Music](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The BA in Music Theory allows students to pursue the Bachelor of Arts with a concentration in music theory. This allows students to pursue a degree that focuses on the analysis and formal structure of music.

## Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces.
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)  
Oral Communication (3 credits)  
Quantitative Literacy (3 credits)  
Arts and Humanities (6 credits)  
Historical (3 credits)  
Natural and Physical Sciences (6 credits)  
**Recommended:** PHY 2620 - Sound and Music (3 credits) (Course also required in the major)  
Social and Behavioral Sciences (6 credits)  
Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion. Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Core Requirements: 32 credits

The following courses are required for all music majors:

MUS 0020 - Recital Attendance **Credits:** 0  
*MUS - 0020 - Recital Attendance (two semesters)*

MUS 1110 - Music Theory I **Credits:** 3  
MUS 1120 - Music Theory Lab I **Credits:** 1  
MUS 1130 - Music Theory II **Credits:** 3  
MUS 1140 - Music Theory Lab II **Credits:** 1  
MUS 161B - Class Piano I **Credits:** 1  
MUS 162B - Class Piano II **Credits:** 1  
MUS 1710 - Private Instruction I **Credits:** 2  
MUS 1720 - Private Instruction II **Credits:** 2  
MUS 2110 - Music Theory III **Credits:** 3  
MUS 2120 - Music Theory Lab III **Credits:** 1  
MUS 2130 - Music Theory IV **Credits:** 3  
MUS 2140 - Music Theory Lab IV **Credits:** 1  
MUS 3050 - Musics of the World **Credits:** 3  
MUS 3210 - Western Music History I **Credits:** 3  
MUS 3220 - Western Music History II **Credits:** 3

Select One:

MUS 3818 - Mariachi Ensemble **Credits:** 1  
MUS 3834 - Gamelan Ensemble **Credits:** 1  
MUS 3835 - African Drum and Dance Ensemble **Credits:** 1

## Specific Degree Requirements: 28 credits

Additional courses required for the degree.

MUS 0020 - Recital Attendance **Credits:** 0  
*MUS - 0020 - Recital Attendance (two additional semesters)*  
MUS 1650 - Basic Music Technology **Credits:** 1  
MUS 2150 - Jazz Theory **Credits:** 3  
MUS 261B - Class Piano III **Credits:** 1  
MUS 262B - Class Piano IV **Credits:** 1  
MUS 2710 - Private Instruction III **Credits:** 2  
MUS 2720 - Private Instruction IV **Credits:** 2  
MUS 3100 - Counterpoint **Credits:** 3  
MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3  
MUS 3510 - Basic Conducting **Credits:** 2  
MUS 3640 - Improvisation **Credits:** 1  
MUS 3650 - Basic Techniques of Composition **Credits:** 2  
MUS 4110 - Analysis of Music **Credits:** 2  
MUS 4800 - Seminar in Music Repertoire **Credits:** 2  
PHY 2620 - Sound and Music **Credits:** 3

## Additional Required Courses: 4 credits

Students are to select four credits from the following classes.

MUS 2660 - Electronic Music Composition **Credits:** 1  
MUS 3000 - Musics of America **Credits:** 3  
MUS 3020 - History of Jazz **Credits:** 3  
MUS 3150 - Arranging and Orchestration **Credits:** 2  
MUS 3160 - Jazz Composition and Arranging **Credits:** 1  
MUS 3410 - String Techniques and Pedagogy **Credits:** 1  
MUS 3430 - Woodwind Techniques and Pedagogy **Credits:** 1  
MUS 3450 - Brass Techniques and Pedagogy **Credits:** 1  
MUS 3460 - Percussion Techniques and Pedagogy **Credits:** 1

## Ensembles: 8 credits

Students enrolled in private lessons must enroll in the appropriate major ensemble during each semester of private instruction.

Choose five hours from the following:

MUS 3828 - Jazz Ensemble **Credits: 1**

MUS 3829 - Jazz Combo **Credits: 1**

*For students whose primary instrument is a jazz instrument, the major ensemble is MUS 3828: Jazz Ensemble or MUS 3829: Jazz Chamber Ensemble, as assigned by the Director of Jazz Studies.*

MUS 3820 - Chorale **Credits: 1**

MUS 3821 - University Treble Choir **Credits: 1**

MUS 3822 - University Basso Choir **Credits: 1**

*For students whose primary instrument is voice, the major ensemble is choir (MUS 3820: Chorale, MUS 3821: University Treble Choir, or MUS 3822: University Basso Choir) as assigned by the Director of Choral Activities.*

MUS 3824 - Symphonic Band **Credits: 1**

MUS 3825 - Wind Ensemble **Credits: 1**

*For students whose primary instrument is woodwinds, brass, or percussion, the major ensemble is band (MUS 3825: Wind Ensemble or MUS 3824: Symphonic Band) as assigned by the Director of Band Activities.*

MUS 3817 - String Sinfonietta **Credits: 1**

MUS 3827 - Symphony Orchestra **Credits: 1**

*For students whose primary instrument is strings, the major ensemble is orchestra (MUS 3817: String Sinfonietta or MUS 3827: Symphony Orchestra), as assigned by the Director of Orchestral Activities.*

MUS 3830 - Guitar Ensemble **Credits: 1**

*For students whose primary instrument is guitar, the major ensemble is MUS 3830: Guitar Ensemble.*

One hour:

MUS 3819 - Chamber Music **Credits: 1**

## Ensembles: Primary instrument in Piano and Organ

MUS 3817 - String Sinfonietta **Credits: 1**

MUS 3820 - Chorale **Credits: 1**

MUS 3821 - University Treble Choir **Credits: 1**

MUS 3822 - University Basso Choir **Credits: 1**

MUS 3824 - Symphonic Band **Credits: 1**

MUS 3825 - Wind Ensemble **Credits: 1**

MUS 3827 - Symphony Orchestra **Credits: 1**

*For students whose primary instrument is piano or organ, the major ensemble is choir (MUS 3820: Chorale (audition), MUS 3821: University Treble Choir (choral experience) or MUS 3822: University Basso Choir (choral experience), band (MUS 3825: Wind Ensemble (audition) or MUS 3824: Symphonic Band) or orchestra (MUS 3817: String Sinfonietta or MUS 3827: Symphony Orchestra), as assigned by the Director of Choral Activities, the Director of Band Activities, or the Director of Orchestral Activities.*

One hour:

## Choose Two Hours from the Following

MUS 3816 - Early Music Ensemble **Credits: 1**

MUS 3817 - String Sinfonietta **Credits: 1**

MUS 3818 - Mariachi Ensemble **Credits: 1**

MUS 3819 - Chamber Music **Credits: 1**

MUS 3820 - Chorale **Credits: 1**

MUS 3831 - Percussion Chamber Ensemble **Credits: 1**

MUS 3832 - Collaborative Piano **Credits: 1**

MUS 3833 - Opera **Credits: 1**

MUS 3834 - Gamelan Ensemble **Credits: 1**

MUS 3835 - African Drum and Dance Ensemble **Credits: 1**

MUS 3821 - University Treble Choir **Credits: 1**

MUS 3822 - University Basso Choir **Credits: 1**

MUS 3823 - Auraria Choir **Credits: 1**

MUS 3824 - Symphonic Band **Credits: 1**

MUS 3825 - Wind Ensemble **Credits: 1**

MUS 3826 - Secondary Instrument Band **Credits: 1**

MUS 3827 - Symphony Orchestra **Credits: 1**

MUS 3828 - Jazz Ensemble **Credits: 1**

MUS 3829 - Jazz Combo **Credits: 1**

MUS 3830 - Guitar Ensemble **Credits: 1**

## Senior Experience: 3 credits

MUS 4950 - Senior Project **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirements	0-3 credits
Core Requirements	32 credits
Specific Degree Requirements	28 credits
Additional Required Courses	4 credits
Ensembles	8 credits
Senior Experience	3 credits
Unrestricted Electives	9-21 credits
<b>Total for the Music Major, B.A. Music Theory Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Music Major, B.M.

[Department of Music](#)

Available Program Format(s): [In-Person](#)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## About the Program

The Bachelor of Music degree prepares students for further graduate studies or for careers as performers, composers, or private studio teachers. Concentrations are available in performance and composition. To be admitted to this program, students must demonstrate the capability of developing a high level of musicianship. For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720 - Private Instruction II. For admission to the composition concentration, students must pass a review of their composition portfolio upon completion of MUS 3650 - Basic Techniques of Composition.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

### Strongly Recommended for the Voice

**Concentration:** FRE 1010 - Elementary French I, GER 1010 - Elementary German I, or ITA 1010 - Elementary Italian I. These courses serve as prerequisites to degree requirements.

Quantitative Literacy (3 credits)

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

Global Diversity (0 or 3 credits\*\*)

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement.

Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Recommended for the Jazz and American

#### Improvised Music Performance

**Concentration:** MUS 3020 - History of Jazz which is a requirement for this concentration.

## Core Requirements: 32 credits

The following courses are required for all music majors:

MUS 0020 - Recital Attendance **Credits:** 0 \*

MUS 1110 - Music Theory I **Credits:** 3

MUS 1120 - Music Theory Lab I **Credits:** 1

MUS 1130 - Music Theory II **Credits:** 3

MUS 1140 - Music Theory Lab II **Credits:** 1

MUS 161B - Class Piano I **Credits:** 1 \*\*

MUS 162B - Class Piano II **Credits:** 1 \*\*

MUS 1710 - Private Instruction I **Credits:** 2 (primary performance area)

MUS 1720 - Private Instruction II **Credits:** 2 (primary performance area)

MUS 2110 - Music Theory III **Credits:** 3

MUS 2120 - Music Theory Lab III **Credits:** 1

MUS 2130 - Music Theory IV **Credits:** 3

MUS 2140 - Music Theory Lab IV **Credits:** 1

MUS 3050 - Musics of the World **Credits:** 3

MUS 3210 - Western Music History I **Credits:** 3

MUS 3220 - Western Music History II **Credits:** 3

Select one credit hour from the following options:

MUS 3818 - Mariachi Ensemble **Credits:** 1

MUS 3834 - Gamelan Ensemble **Credits:** 1

MUS 3835 - African Drum and Dance Ensemble **Credits:** 1

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

*\*\*Students whose primary instrument is piano must substitute MUS 261B and MUS 262B, Class Piano III and IV, for MUS 161B and MUS 162B, Class Piano I and II, in the core requirements listed above.*

## Woodwinds, Brass, Strings, and Percussion Performance Concentrations

For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720 - Private Instruction II.

### Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.
- The ability to perform a cross-section of musical styles from the complete repertory of the particular performance medium including music of their own time.

### Specific Concentration Requirements: 30 credits

- MUS 0020 - Recital Attendance **Credits:** 0 (six additional semesters)\*
- MUS 1650 - Basic Music Technology **Credits:** 1
- MUS 2730 - Performance III **Credits:** 3 (Primary Performance Area)
- MUS 2740 - Performance IV **Credits:** 3 (Primary Performance Area)
- MUS 3150 - Arranging and Orchestration **Credits:** 2
- MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3
- MUS 3510 - Basic Conducting **Credits:** 2
- MUS 3640 - Improvisation **Credits:** 1
- MUS 3730 - Performance V **Credits:** 3 (Primary Performance Area)
- MUS 3740 - Performance VI **Credits:** 3 (Primary Performance Area)
- MUS 4730 - Performance VII (Primary Performance Area) **Credits:** 3
- MUS 4800 - Seminar in Music Repertoire **Credits:** 2
- Upper-division elective in Music Theory, History, Literature or Pedagogy Credits: 3
- General Elective Course Credits: 1

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

Select one of the following courses: 1 credit

- MUS 3410 - String Techniques and Pedagogy **Credits:** 1
- MUS 3430 - Woodwind Techniques and Pedagogy **Credits:** 1
- MUS 3450 - Brass Techniques and Pedagogy **Credits:** 1
- MUS 3460 - Percussion Techniques and Pedagogy **Credits:** 1

### Ensemble Requirements: 12 credits

*Students must complete 12 credits of ensembles.*

### Woodwind, Brass, and Percussion Concentration

Six hours:

- MUS 3824 - Symphonic Band **Credits:** 1
- MUS 3825 - Wind Ensemble **Credits:** 1

*MUS 3825: Wind Ensemble requires an audition. Students must complete the requirement with a grade of "C-" or better in order to be eligible to continue to enroll in individual instruction.*

Two hours:

- MUS 3827 - Symphony Orchestra **Credits:** 1

*Students must complete the requirement with a grade of "C-" or better in order to be eligible to continue to enroll in individual instruction.*

Note: B.M in Music performance with saxophone as the principle instrument may take two semester of either MUS 3827 - Symphony Orchestra, or MUS 3828 - Jazz Ensemble.

Four hours:

- MUS 3819 - Chamber Music **Credits:** 1

### Strings Concentration

Eight hours:

- MUS 3817 - String Sinfonietta **Credits:** 1
- MUS 3827 - Symphony Orchestra **Credits:** 1

*MUS 3827: Symphony Orchestra requires an audition. Students must complete the requirement with a grade of "C-" or better in order to be eligible to continue to enroll in individual instruction.*

Four hours:

- MUS 3819 - Chamber Music **Credits:** 1

### Senior Experience: 3 credits

- MUS 4740 - Senior Recital Performance **Credits:** 3

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits

Core Requirements	32 credits
Specific Concentration Requirements	30 credits
Selected Pedagogy Course	1 credit
Ensemble Requirements	12 credits
Senior Experience	3 credits
Unrestricted Electives	6-15 credits
<b>Total for the Music Major, B.M., Woodwinds, Brass, Strings, and Percussion Performance Concentrations</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Piano, Organ, and Guitar Performance Concentration

For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720 - Private Instruction II.

### Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.
- The ability to perform a cross-section of musical styles from the complete repertory of the particular performance medium including music of their own time.

### Specific Degree Requirements: 24 credits

- MUS 0020 - Recital Attendance **Credits: 0** (Six additional semesters)\*
- MUS 1650 - Basic Music Technology **Credits: 1**
- MUS 2730 - Performance III **Credits: 3** (Primary performance area)
- MUS 2740 - Performance IV **Credits: 3** (Primary performance area)
- MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits: 3**
- MUS 3510 - Basic Conducting **Credits: 2**

- MUS 3640 - Improvisation **Credits: 1**
- MUS 3730 - Performance V **Credits: 3** (Primary performance area)
- MUS 3740 - Performance VI **Credits: 3** (Primary performance area)
- MUS 4730 - Performance VII (Primary Performance Area) **Credits: 3**
- MUS 4800 - Seminar in Music Repertoire **Credits: 2**

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

### Additional Concentration Requirements (Specific Instrument Concentration): 9 credits

#### Piano Concentration

- MUS 3100 - Counterpoint **Credits: 3**
- MUS 4410 - Piano Pedagogy **Credits: 3**
- Upper-division elective in Music Theory, History, Literature or Pedagogy **Credits: 3**

#### Organ Concentration

- MUS 3100 - Counterpoint **Credits: 3**
- MUS 3520 - Choral Conducting **Credits: 2**
- MUS 4450 - Organ Pedagogy **Credits: 3**
- MUS XXXX Elective Course **Credits: 1**

#### Guitar Concentration

- MUS 3100 - Counterpoint **Credits: 3**
- MUS 3150 - Arranging and Orchestration **Credits: 2**
- MUS 4430 - Guitar Pedagogy and Literature **Credits: 3**

Select one of the following courses: 1 credit

- MUS 3410 - String Techniques and Pedagogy **Credits: 1**
- MUS 3430 - Woodwind Techniques and Pedagogy **Credits: 1**
- MUS 3450 - Brass Techniques and Pedagogy **Credits: 1**
- MUS 3460 - Percussion Techniques and Pedagogy **Credits: 1**

### Ensemble Requirements: 12 credits

#### Piano Concentration

- Six hours:
- MUS 3832 - Collaborative Piano **Credits: 1**
- Students must complete the requirement with a grade of "C- " or better in order to be eligible to continue to enroll in individual instruction.*

Four hours:

- MUS 3819 - Chamber Music **Credits:** 1  
 Two hours:  
 MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
 MUS 3824 - Symphonic Band **Credits:** 1  
 MUS 3825 - Wind Ensemble **Credits:** 1  
 MUS 3826 - Secondary Instrument Band **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1

### Organ Concentration

- Eight hours:  
 MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3819 - Chamber Music **Credits:** 1  
*Students must complete the requirement with a grade of "C-"  
 " or better in order to be eligible to continue to enroll in  
 individual instruction.*

- Four hours:  
 MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
 MUS 3824 - Symphonic Band **Credits:** 1  
 MUS 3825 - Wind Ensemble **Credits:** 1  
 MUS 3826 - Secondary Instrument Band **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1

### Guitar Concentration

- Eight hours:  
 MUS 3830 - Guitar Ensemble **Credits:** 1  
*Students must complete the requirement with a grade of "C-"  
 " or better in order to be eligible to continue to enroll in  
 individual instruction.*

- Two hours:  
 MUS 3819 - Chamber Music **Credits:** 1  
 Two hours:  
 MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
 MUS 3824 - Symphonic Band **Credits:** 1  
 MUS 3825 - Wind Ensemble **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1  
 MUS 3828 - Jazz Ensemble **Credits:** 1

### Senior Experience: 3 credits

- MUS 4740 - Senior Recital Performance **Credits:** 3

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Requirements	32 credits
Specific Degree Requirements	24 credits
Additional Concentration Requirements	9 credits
Ensemble Requirements	12 credits
Senior Experience	3 credits
Unrestricted Electives	4-13 credits
<b>Total for the Music Major, B.M., Piano, Organ, and Guitar Performance Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Voice Performance Concentration

For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720 - Private Instruction II.

### Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces.
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.
- The ability to perform a cross-section of musical styles from the complete repertory of the particular performance medium including music of their own time.

### Specific Concentration Requirements: 24 credits

- MUS 0020 - Recital Attendance **Credits:** 0 (six additional semesters)\*
- MUS 1650 - Basic Music Technology **Credits:** 1
- MUS 2730 - Performance III **Credits:** 3 (Primary Performance Area)
- MUS 2740 - Performance IV **Credits:** 3 (Primary Performance Area)

MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3  
 MUS 3510 - Basic Conducting **Credits:** 2  
 MUS 3640 - Improvisation **Credits:** 1  
 MUS 3730 - Performance V **Credits:** 3 (Primary Performance Area)  
 MUS 3740 - Performance VI **Credits:** 3 (Primary Performance Area)  
 MUS 4730 - Performance VII (Primary Performance Area) **Credits:** 3 (Primary Performance Area)  
 MUS 4800 - Seminar in Music Repertoire **Credits:** 2

Additional Concentration Requirements: 12 credits

Voice Performance: 7 credits

MUS 2400 - Vocal Diction I **Credits:** 2  
 MUS 3400 - Vocal Diction II **Credits:** 2  
 MUS 4520 - Vocal Pedagogy and Literature **Credits:** 3

Select one of the following: 5 credits

FRE 1020 - Elementary French II **Credits:** 5  
 GER 1020 - Elementary German II **Credits:** 5  
 ITA 1020 - Elementary Italian II **Credits:** 5

Ensemble Requirements: 12 credits

Eight hours:

MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
*MUS 3820: Chorale requires an audition. Students must complete the requirement with a grade of "C-" or better in order to be eligible to continue to enroll in individual instruction.*

Three hours:

MUS 3819 - Chamber Music **Credits:** 1  
 MUS 3833 - Opera **Credits:** 1  
*Opera requires an audition.*

One Hour:

MUS 3816 - Early Music Ensemble **Credits:** 1  
 MUS 3819 - Chamber Music **Credits:** 1  
 MUS 3833 - Opera **Credits:** 1  
*MUS 3833: Opera requires an audition.*

Senior Experience: 3 credits

MUS 4740 - Senior Recital Performance **Credits:** 3

Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Core Requirements	32 credits
Specific Concentration Requirements	24 credits
Additional Concentration Requirements	13 credits
Ensemble Requirements	12 credits
Senior Experience	3 credits
Unrestricted Electives	1-10 credits
<b>Total for the Music Major, B.M., Voice Performance Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Jazz and American Improvised Music Performance Concentration

For admission to the performance concentration, students must pass the music performance audition upon completion of MUS 1720 - Private Instruction II.

### Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.
- The ability to perform a cross-section of musical styles from the complete repertory of the particular performance medium including music of their own time.

Specific Concentration Requirements: 36 credits

MUS 0020 - Recital Attendance **Credits:** 0 (six additional semesters)\*  
 MUS 1650 - Basic Music Technology **Credits:** 1  
 MUS 2150 - Jazz Theory **Credits:** 3  
 MUS 2450 - Jazz Improvisation I **Credits:** 1  
 MUS 2451 - Jazz Improvisation II **Credits:** 1  
 MUS 2630 - Jazz Piano **Credits:** 1  
 MUS 2730 - Performance III **Credits:** 3  
 MUS 2740 - Performance IV **Credits:** 3

MUS 3020 - History of Jazz **Credits:** 3 \*\*  
 MUS 3030 - Traditional American Improvised Styles **Credits:** 3  
 MUS 3160 - Jazz Composition and Arranging **Credits:** 1  
 MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3  
 MUS 3510 - Basic Conducting **Credits:** 2  
 MUS 3730 - Performance V **Credits:** 3  
 MUS 3740 - Performance VI **Credits:** 3  
 MUS 4350 - Jazz Pedagogy **Credits:** 2  
 MUS 4730 - Performance VII (Primary Performance Area) **Credits:** 3

*\*Students must enroll during each semester of individual instruction and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

*\*\*Fulfills Multicultural requirement.*

### Secondary Performance Area\*\*\*: 2 credits

Select two credits from one of the following areas:

MUS 161K - Class Guitar I **Credits:** 1 (Secondary Performance Area)  
 MUS 162K - Class Guitar II **Credits:** 1 (Secondary Performance Area)  
 MUS 1710 - Private Instruction I **Credits:** 2 (Secondary Performance Area) \*\*\*\*

*\*\*\*Students must enroll during each semester of private instruction.*

*\*\*\*\*Students in the Jazz and American Improvised Music Performance concentration may fulfill this requirement through classical study on the same instrument.*

### Ensemble Requirements: 12 credits

Ten hours:

MUS 3828 - Jazz Ensemble **Credits:** 1  
 MUS 3829 - Jazz Combo **Credits:** 1  
*MUS 3828: Jazz Ensemble and MUS 3829: Jazz Combo require an audition. Students must complete the requirement with a grade of "C-" or better to be eligible to continue to enroll in individual instruction*

Two hours:

MUS 3816 - Early Music Ensemble **Credits:** 1  
 MUS 3819 - Chamber Music **Credits:** 1  
 MUS 3830 - Guitar Ensemble **Credits:** 1  
 MUS 3831 - Percussion Chamber Ensemble **Credits:** 1  
*MUS 3830: Guitar Ensemble and MUS 3831: Percussion Ensemble require an audition.*

### Senior Experience: 3 credits

MUS 4740 - Senior Recital Performance **Credits:** 3

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Requirements	32 credits
Specific Concentration Requirements	36 credits
Secondary Performance Area	2 credits
Ensemble Requirements	12 credits
Senior Experience	3 credits
Unrestricted Electives	0-8 credits
<b>Total for the Music Major, B.M., Jazz and American Improvised Music Performance Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Composition Concentration

For admission to the composition concentration, students must pass a review of their composition portfolio upon completion of MUS 3650 - Basic Techniques of Composition.

## Student Outcomes

- Be able to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony, and structure, and to be able to sight read music with fluency.
- Understand compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces
- Have experienced a wide selection of musical styles, traditions, and compositions from a variety of sources through study, participation, and exposure through live performances.
- Have the technical and artistic ability to perform in areas appropriate to the student's needs and interests, and to work independently and creatively.
- Use of basic concepts, tools, techniques, and procedures to develop a composition from concept to finished product.

## Specific Concentration Requirements: 40 credits

MUS 0020 - Recital Attendance **Credits:** 0 (six additional semesters)\*  
 MUS 1650 - Basic Music Technology **Credits:** 1  
 MUS 261B - Class Piano III **Credits:** 1  
 MUS 262B - Class Piano IV **Credits:** 1

MUS 2660 - Electronic Music Composition **Credits:** 1  
 MUS 2710 - Private Instruction III **Credits:** 2 (Primary Performance Area)  
 MUS 2720 - Private Instruction IV **Credits:** 2 (Primary Performance Area)  
 MUS 3100 - Counterpoint **Credits:** 3  
 MUS 3150 - Arranging and Orchestration **Credits:** 2  
 MUS 3260 - Professional and Career Development for the 21st Century Musician **Credits:** 3  
 MUS 3410 - String Techniques and Pedagogy **Credits:** 1  
 MUS 3430 - Woodwind Techniques and Pedagogy **Credits:** 1  
 MUS 3450 - Brass Techniques and Pedagogy **Credits:** 1  
 MUS 3460 - Percussion Techniques and Pedagogy **Credits:** 1  
 MUS 3510 - Basic Conducting **Credits:** 2  
 MUS 3540 - Advanced Conducting **Credits:** 2  
 MUS 3640 - Improvisation **Credits:** 1  
 MUS 3650 - Basic Techniques of Composition **Credits:** 2  
 MUS 3711 - Private Instruction V (Composition) **Credits:** 2  
 MUS 3741 - Performance VI **Credits:** 3  
 MUS 4731 - Performance VII (Composition) **Credits:** 3  
 MUS 4741 Performance VIII (Composition) **Credits:** 3  
 MUS 4110 - Analysis of Music **Credits:** 2

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

### Ensembles: 9 credits

Students choose a major ensemble that corresponds to their primary instrument.

Five hours:

MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3824 - Symphonic Band **Credits:** 1  
 MUS 3825 - Wind Ensemble **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1

*MUS: 3820 Chorale, MUS 3825: Wind Ensemble, and MUS 3827: Symphony Orchestra require an audition. Students must complete the requirement with a grade of "C-" or better to be eligible to continue to enroll in individual instruction.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

### One Hour:

MUS 3824 - Symphonic Band **Credits:** 1  
 MUS 3825 - Wind Ensemble **Credits:** 1  
 MUS 3826 - Secondary Instrument Band **Credits:** 1  
*MUS 3825: Wind Ensemble requires an audition.*

### One Hour:

MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1  
*MUS 3827: Symphony Orchestra requires an audition.*

### One Hour:

MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
*MUS: 3820 Chorale requires an audition.*

### Senior Experience: 3 credits

MUS 4960 - Senior Composition Project **Credits:** 3

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Requirements	32 credits
Specific Concentration Requirements	40 credits
Ensemble Requirements	9 credits
Senior Experience	3 credits
Unrestricted Electives	0-6 credits
<b>Total for the Music Major, B.M., Composition Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Music Education, B.M.E.

[Department of Music](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Bachelor of Music Education degree prepares students for careers teaching music in K-12 schools and satisfies the requirements for K-12 licensure in the State of Colorado. Students must apply for and be granted admission to the music education program prior to any enrollment in music education methods courses, supervised field experiences, and student teaching. Further information may be obtained in the *Department of Music Student Handbook*. Students seeking this degree must satisfy all applicable requirements of the Department of Music and the School of Education teacher education program. To become licensed, recipients of the Bachelor of Music Education degree must satisfy all applicable

requirements of the teacher education and licensure programs in the School of Education. This degree program is approved by the Colorado State Department of Education and has full accreditation by the National Association of Schools of Music.

## Student Outcomes

- Describe knowledge of content, methodologies, philosophies, materials, technologies, and curriculum development in music education.
- Teach music at various levels to different age groups in a variety of classroom and ensemble settings.
- Demonstrate a functional knowledge of voice, wind, string, percussion, and modern instruments.
- Assess individuals and groups of students and plan educational programs to meet assessed needs.
- Evaluate techniques and apply them in assessing both the musical progress of students and the objectives and procedures of the curriculum.
- Accept, amend, or reject methods and materials based on personal assessment of specific teaching situations.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 127 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** MTH 1610 - Integrated Mathematics

I. Using mathematics, students take a concept-oriented approach to exploring critical problems, deriving and justifying multiple solutions, and analyzing and communicating these responses.

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

Social and Behavioral Sciences (6 credits)

**Strongly Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools. This course is a corequisite to MUS 3351 - Supervised Field Experience in General Music.

**Recommended:** PSY 1800 - Developmental Educational Psychology. Students are introduced to developmental psychology that supports learning.

Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Many programs include courses that meet this requirement.

Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Core Requirements: 32 credits

The following courses are required for all music majors:

MUS 0020 - Recital Attendance **Credits:** 0 (two semesters)\*

MUS 1110 - Music Theory I **Credits:** 3

MUS 1120 - Music Theory Lab I **Credits:** 1

MUS 1130 - Music Theory II **Credits:** 3

MUS 1140 - Music Theory Lab II **Credits:** 1

MUS 161B - Class Piano I **Credits:** 1 \*\*

MUS 162B - Class Piano II **Credits:** 1 \*\*

MUS 1710 - Private Instruction I **Credits:** 2 (primary performance area)

MUS 1720 - Private Instruction II **Credits:** 2 (primary performance area)

MUS 2110 - Music Theory III **Credits:** 3

MUS 2120 - Music Theory Lab III **Credits:** 1

MUS 2130 - Music Theory IV **Credits:** 3

MUS 2140 - Music Theory Lab IV **Credits:** 1

MUS 3050 - Musics of the World **Credits:** 3

MUS 3210 - Western Music History I **Credits:** 3

MUS 3220 - Western Music History II **Credits:** 3

Select one credit hour from the following options:

MUS 3818 - Mariachi Ensemble **Credits:** 1

MUS 3834 - Gamelan Ensemble **Credits:** 1

MUS 3835 - African Drum and Dance Ensemble **Credits:** 1

Students must enroll in MUS 3818: Mariachi Ensemble, MUS 3834: Gamelan Ensemble, or MUS 3835: African Drum and Dance Ensemble to meet this requirement.

\*Students must enroll during each semester of individual instruction and complete the requirement with a "Satisfactory" grade to be eligible to continue to enroll in individual instruction.

\*\*Students whose primary instrument is piano must substitute MUS 261B and 262B, Class Piano III and IV, for MUS 161B and 162B, Class Piano I and II, in the core requirements listed above. These students will not be required to take any additional piano courses.

## Specific Degree Requirements: 41 credits

MUS 0020 - Recital Attendance **Credits:** 0 (four additional semesters)\*  
MUS 2340 - Foundations of Music Education **Credits:** 2  
MUS 261B - Class Piano III **Credits:** 1  
MUS 262B - Class Piano IV **Credits:** 1  
MUS 2710 - Private Instruction III **Credits:** 2 (Primary Performance Area)  
MUS 2720 - Private Instruction IV **Credits:** 2 (Primary Performance Area)  
MUS 3250 - Basic Vocal Pedagogy and Diction **Credits:** 2  
MUS 3350 - Teaching General Music **Credits:** 2 \*\*  
MUS 3351 - Supervised Field Experience in General Music **Credits:** 1 \*\*  
MUS 3360 - Instruments in General Music **Credits:** 1  
MUS 3390 - The Inclusive Music Classroom **Credits:** 2  
MUS 3510 - Basic Conducting **Credits:** 2  
MUS 3540 - Advanced Conducting **Credits:** 2  
MUS 3710 - Private Instruction V **Credits:** 2 (Primary Performance Area)  
MUS 3720 - Private Instruction VI **Credits:** 2 (Primary Performance Area)  
MUS 4360 - Teaching Secondary Music I **Credits:** 2 \*\*\*  
MUS 4361 - Supervised Field Experience in Secondary Music I **Credits:** 1 \*\*\*  
MUS 4370 - Teaching Secondary Music II **Credits:** 2 \*\*\*\*  
MUS 4371 - Supervised Field Experience in Secondary Music II **Credits:** 1 \*\*\*\*  
MUS 4440 - Contemporary Music Education Practices **Credits:** 1  
CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3  
EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3

## Notes:

\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.

\*\*MUS 3350, MUS 3351, and CLD 3510 must be taken concurrently.

\*\*\*MUS 4360 and MUS 4361 must be taken concurrently.

\*\*\*\*MUS 4370 and MUS 4371 must be taken concurrently.

## Take 4 of the following courses: 4 credits

MUS 162A - Class Voice II **Credits:** 1  
MUS 2660 - Electronic Music Composition **Credits:** 1  
MUS 3410 - String Techniques and Pedagogy **Credits:** 1  
MUS 3420 - Guitar Techniques and Pedagogy **Credits:** 1  
MUS 3430 - Woodwind Techniques and Pedagogy **Credits:** 1  
MUS 3450 - Brass Techniques and Pedagogy **Credits:** 1  
MUS 3460 - Percussion Techniques and Pedagogy **Credits:** 1  
MUS 3640 - Improvisation **Credits:** 1

## Ensembles: 8 credits

Students must enroll in the major ensemble according to their primary performance area during each semester of private instruction and must complete the requirement with a grade of "C-" or better to remain eligible to continue to enroll in private instruction.

## Ensembles: Primary Instrument in Jazz

Select five credit hours from the following options:

MUS 3828 - Jazz Ensemble **Credits:** 1  
MUS 3829 - Jazz Combo **Credits:** 1  
*MUS 3828: Jazz Ensemble and MUS 3829: Jazz Chamber Music requires an audition.*

Select one credit hour from the following:

MUS 3816 - Early Music Ensemble **Credits:** 1  
MUS 3819 - Chamber Music **Credits:** 1  
MUS 3830 - Guitar Ensemble **Credits:** 1  
MUS 3831 - Percussion Chamber Ensemble **Credits:** 1  
*MUS 3830: Guitar Ensemble and MUS 3831: Percussion Chamber Music requires an audition.*

## Ensembles: Primary Instrument in Woodwinds, Brass, or Percussion

Select five hours from the following:

MUS 3824 - Symphonic Band **Credits:** 1  
MUS 3825 - Wind Ensemble **Credits:** 1  
*MUS 3825: Wind Ensemble requires an audition.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

## Ensembles: Primary Instrument in Piano, Organ, or Classical Guitar

Select five hours from the following:

MUS 3820 - Chorale **Credits:** 1

MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
 MUS 3830 - Guitar Ensemble **Credits:** 1  
 MUS 3832 - Collaborative Piano **Credits:** 1  
*MUS 3820: Chorale, MUS 3830: Guitar Ensemble, and MUS: 3832 Collaborative Piano require an audition. MUS 3821: University Treble Choir and MUS 3822: University Basso Choir require choral experience.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

Ensembles are assigned by the Director of Music Education

### Ensembles: Primary Instrument in Strings

Choose five hours from the following:

MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3827 - Symphony Orchestra **Credits:** 1  
*MUS 3827: Symphony Orchestra requires an audition.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

### Ensembles: Primary Instrument in Voice

Choose five hours from the following:

MUS 3820 - Chorale **Credits:** 1  
 MUS 3821 - University Treble Choir **Credits:** 1  
 MUS 3822 - University Basso Choir **Credits:** 1  
*MUS 3820: Choral requires an audition. MUS 3821: University Treble Choir and MUS 3822: University Basso Choir requires choral experience.*

One hour:

MUS 3819 - Chamber Music **Credits:** 1

### Take 2 of the following ensembles:

MUS 3817 - String Sinfonietta **Credits:** 1  
 MUS 3823 - Auraria Choir **Credits:** 1  
 MUS 3826 - Secondary Instrument Band **Credits:** 1

### Senior Experience: 12 credits

MUS 4971 - Student Teaching and Seminar: Elementary (K-6) **Credits:** 6  
 MUS 4972 - Student Teaching and Seminar: Secondary (7-12) **Credits:** 6

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits

Core Requirements	32 credits
Specific Degree Requirements	41 credits
4 selected courses	4 credits
Ensembles	8 credits
Senior Experience	12 credits
Total for the Music Education Major, B.M.E.	127 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 3 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

### Music Minor

Required Courses	21
Ensembles	2
<i>Total hours required</i>	23

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

### Required Courses

MUS 0020 - Recital Attendance **Credits:** 0 (two semesters)\*  
 MUS 1110 - Music Theory I **Credits:** 3  
 MUS 1120 - Music Theory Lab I **Credits:** 1  
 MUS 1130 - Music Theory II **Credits:** 3  
 MUS 1140 - Music Theory Lab II **Credits:** 1  
 MUS 161B - Class Piano I **Credits:** 1 \*\*  
 MUS 162B - Class Piano II **Credits:** 1 \*\*  
 MUS 1710 - Private Instruction I **Credits:** 2 (Primary Performance Area)  
 MUS 1720 - Private Instruction II **Credits:** 2 (Primary Performance Area)  
 MUS 3050 - Musics of the World **Credits:** 3  
 Upper-Division Electives in Music Theory, History, Literature, or Pedagogy **Credits:** 4

**Subtotal: 21 credits**

### Note:

*\*Students must enroll during each semester of individual instruction, and complete the requirement with a "Satisfactory" grade in order to be eligible to continue to enroll in individual instruction.*

*\*\*Students whose primary instrument is piano must substitute MUS 261B and MUS 262B, Class Piano III and IV, for MUS 161B and MUS 162B, Class Piano I and II, in the core requirements listed above.*

### Ensembles

Select two credit hours from the following\*:

MUS 3828 - Jazz Ensemble **Credits:** 1

MUS 3829 - Jazz Combo **Credits:** 1

*For students whose primary instrument is jazz guitar, jazz bass, jazz drum set, or jazz piano, the major ensemble is MUS 3828: Jazz Ensemble or MUS 3829: Jazz Chamber Music, as assigned by the Director of Jazz Studies.*

MUS 3820 - Chorale **Credits:** 1

MUS 3821 - University Treble Choir **Credits:** 1

MUS 3822 - University Basso Choir **Credits:** 1

*For students whose primary instrument is voice, the major ensemble is choir (MUS 3820: Chorale, MUS 3822: Men's Choir, or MUS 3821: Women's Choir) as assigned by the Director of Choral Activities.*

MUS 3824 - Symphonic Band **Credits:** 1

MUS 3825 - Wind Ensemble **Credits:** 1

*For students whose primary instrument is woodwinds, brass, or percussion, the major ensemble is band (MUS 3825: Wind Ensemble or MUS 3824: Symphonic Band) as assigned by the Director of Band Activities.*

MUS 3817 - String Sinfonietta **Credits:** 1

MUS 3827 - Symphony Orchestra **Credits:** 1

*For students whose primary instrument is strings, the major ensemble is orchestra (MUS 3817: String Sinfonietta or MUS 3827: Symphony Orchestra), as assigned by the Director of Orchestral Activities.*

MUS 3832 - Collaborative Piano **Credits:** 1

*For students whose primary instrument is piano or organ, the major ensemble is MUS: 3828 Collaborative Piano.*

MUS 3830 - Guitar Ensemble **Credits:** 1

*For students whose primary instrument is guitar, the major ensemble is MUS 3830: Guitar Ensemble.*

**Subtotal: 2 credits**

## Notes:

*\*This course may be repeated for credit. Students are encouraged to enroll in a variety of ensembles outside of their major area of study. Students enrolled in private lessons must enroll in the appropriate major ensemble during each semester of individual instruction and must complete the requirement with a grade of "C-" or better in order to remain eligible to continue to enroll in individual instruction.*

## Department of Philosophy

The Department of Philosophy offers students opportunities for advanced study in the foundational disciplines of *studia humanitatis* (or, the humanities). It offers a Bachelor of Arts degree in Philosophy, a minor in Philosophy, and a minor in Religious Studies.

### Program Requirements

- [Philosophy Major, B.A.](#)
- [Philosophy Minor](#)
- [Religious Studies Minor](#)

## Philosophy Major, B.A.

[Department of Philosophy](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The major in Philosophy emphasizes and reinforces general skills, both critical and creative, that will serve as a basis for further studies, in a field such as law or public policy, or professional careers, including management and government. The departmental publication *Philosophy at MSU Denver* contains further particulars, including information about the course distribution areas referenced below. Undergraduates preparing for graduate study in philosophy should plan their academic program in close consultation with a department advisor.

### Student Outcomes

On completion of their degree in Philosophy, students should have a detailed understanding, sophisticated appreciation and critical awareness:

- of the nature and complexity of human thought, of its critical and creative possibilities, and of the longstanding;
- of the core problems, issues, and approaches, first delineated and associated with philosophical inquiry,
- of the possible ramifications and innate complexity of even basic philosophical ideas, and the ability to adjudicate and evaluate such notions in light of the purposive aspects of human existence.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Core Courses: 12 credits

#### Area One: Language and Logic: 6 credits

- PHI 2440 - Symbolic Logic **Credits:** 3
- PHI 3120 - Philosophy of Language **Credits:** 3

#### Area Two: History: 6 credits

- PHI 3000 - History of Ancient Philosophy **Credits:** 3
- PHI 3020 - History of Modern Philosophy **Credits:** 3

### Additional Distribution Requirements: 12 credits

#### Area Three: Knowledge and Reality: 3 credits

Choose one of the following courses:

- PHI 3320 - Metaphysics **Credits:** 3
- PHI 3330 - Epistemology **Credits:** 3
- PHI 3400 - Philosophy of Science **Credits:** 3
- PHI 3530 - Philosophy of Mind **Credits:** 3

#### Area Four: Value: 3 credits

Choose one of the following courses:

- PHI 3150 - Social and Political Philosophy **Credits:** 3
- PHI 3350 - Ethical Theories **Credits:** 3
- PHI 3360 - Business Ethics **Credits:** 3
- PHI 3370 - Computers, Ethics, and Society **Credits:** 3
- PHI 3380 - Science and Human Values: Variable Topics **Credits:** 3
- PHI 3390 - Aesthetics **Credits:** 3
- PHI 3430 - Philosophy of Law **Credits:** 3
- PHI 3450 - Human Nature and Conduct: Variable Topics **Credits:** 3

#### Area Five: Diverse Perspectives: 3 credits

Choose one of the following courses:

- PHI 3180 - Feminist Philosophy **Credits:** 3
- PHI 3410 - Eastern Philosophy: Variable Topics **Credits:** 3
- Other courses will satisfy this requirement depending on their content in a particular iteration.

#### Area Six: Advanced Philosophical Topics: 3 credits

Choose one of the following courses:

- PHI 3480 - Histories of Desire: Variable Topics **Credits:** 3
- PHI 3500 - Advanced Humanistic Inquiry: Variable Topics **Credits:** 3
- PHI 3510 - Phenomenology **Credits:** 3
- PHI 3550 - Existentialism **Credits:** 3
- PHI 3570 - Hermeneutics **Credits:** 3
- PHI 3600 - Currents in American Thought: Variable Topics **Credits:** 3
- PHI 3610 - Religious Studies: Variable Topics **Credits:** 3
- PHI 3700 - Philosophy and the Arts: Variable Topics **Credits:** 3
- PHI 3810 - Major Philosophers: Variable Topics **Credits:** 3

### Philosophy Electives: 9 credits

Select three additional philosophy electives (of which one may be lower division).

#### Senior Experience: 3 credits

- PHI 4100 - Senior Seminar **Credits:** 3

### Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits

Required Courses	12 credits
Additional Requirements	12 credits
Philosophy Electives	9 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	48-60 credits
<b>Total for the Philosophy Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Philosophy Minor

The minor in Philosophy is a very flexible program designed to complement a number of possible majors, including Anthropology, English, History, Political Science, Psychology, Sociology, or Women's Studies, among others.

A letter grade of "C-" or better is necessary in each of the required core courses.

## Required Core Courses

- PHI 1010 - Introduction to Philosophy **Credits: 3**
- PHI 1030 - Introduction to Ethics **Credits: 3**
- PHI 1110 - Language, Logic & Persuasion **Credits: 3**
- PHI 3000 - History of Ancient Philosophy **Credits: 3**  
or
- PHI 3020 - History of Modern Philosophy **Credits: 3**

**Subtotal: 12 credits**

## Additional Philosophy Upper-division Electives

Upper-division electives should be chosen in consultation with the department.

**Subtotal: 9 credits**

**Total for Minor: 21 credits**

## Religious Studies Minor

The minor in Religious Studies, which promotes the institutional goals of cultural diversity and global awareness, is advantageous for those students planning a career in international business, diplomacy, law, medicine, public policy or social work, as well as numerous other vocations and endeavors.

A letter grade of "C-" or better is necessary in each of the required core courses.

## Required Core Courses

- PHI 1040 - Introduction to Eastern Religions **Credits: 3 \***
- PHI 1050 - Introduction to Western Religions **Credits: 3 \***
- PHI 2040 - Philosophy of Religion **Credits: 3 \***
- PHI 3000 - History of Ancient Philosophy **Credits: 3**  
or
- PHI 3020 - History of Modern Philosophy **Credits: 3**

**Subtotal: 12 credits**

## Additional Interdisciplinary Upper-division Electives

One of the following:

- ANT 3640 - Biblical Archaeology **Credits: 3**
- ENG 3420 - The English Bible as Literature **Credits: 3 \***
- ENG 3430 - Classical Mythology **Credits: 3 \***
- ENG 3440 - Myth and Literature **Credits: 3 \***

One of the following:

- HIS 3770 - World of Islam **Credits: 3 \***
- SOC 3910 - Sociology of Religion **Credits: 3 \***
- GWS 3910 - Women's Spirituality **Credits: 3 \***

**Subtotal: 6 credits**

## Additional Philosophy Upper-division Electives

One of the following:

- PHI 3410 - Eastern Philosophy: Variable Topics **Credits: 3 \***
- PHI 3610 - Religious Studies: Variable Topics **Credits: 3 \***
- PHI 4050 - Comparative Thought: Variable Topics **Credits: 3 \***

**Subtotal: 3 credits**

**Total for Minor: 21 credits**

## Note

\* Course has additional prerequisites.

## Department of Physics

### Academic Programs

- [Physics Major, B.A.](#)
- [Physics Major, B.S.](#)

- [Physics Major, B.A. with Secondary Science Teacher Licensure Concentration](#)
- Physics Minor

The Department of Physics offers coursework leading to a bachelor of science and to a bachelor of arts degree. A minor in physics is also offered. Undergraduates preparing for graduate study in physics should take the bachelor of science in physics. Undergraduates preparing for teaching at the pre-college level should take the Bachelor of Arts in Physics. Those undergraduates preparing to work in industry or considering graduate work in engineering should consult with the Physics Department to determine which degree to pursue.

Physics courses are taught jointly by the faculties of MSU Denver and the University of Colorado Denver. MSU Denver students will receive instruction from the faculty of both institutions.

The physics department also offers courses in astronomy, which are designed primarily as general interest courses.

## Physics Major, B.A.

[Department of Physics](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Department of Physics at the Metropolitan State University of Denver offers programs leading to a Bachelor of Science in Physics, a Bachelor of Arts in Physics, and a minor in physics. We also offer a Bachelor of Arts in Physics with Science Licensure. We offer introductory courses designed for both STEM majors as well as for the enrichment of non-science majors, including introductory physics, astronomy, and cosmology. We prepare our physics majors for graduate study in a wide range of disciplines including physics, astronomy, engineering, and science education, and for successful employment in technologically oriented industries. Our faculty are outstanding classroom teachers, bringing rigorous coursework, laboratory experience, advising and mentoring to our students. They maintain professional currency and engage in scholarly activities through involvement in undergraduate research, personalized professional development programs, and projects associated with teaching and learning. We seek to increase the science literacy of the Denver community through science outreach and an increasingly strong role in the education of future teachers.

## Student Outcomes

- develop mathematical skills that facilitate their understanding of the fundamental principles of physics and enable problem solving.
- apply advanced mathematical techniques (understanding vectors in multiple coordinate systems, solving differential equations, and basic computational skills).

- use standard laboratory equipment to collect data and perform quantitative evaluations of the experimental outcome.
- communicate the process and outcomes of scientific experiments using scientifically sound reports including posters, papers, and oral presentations.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Required Ancillary Courses: 12 credits

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4
- MTH 2420 - Calculus III **Credits:** 4

### Required Courses: 25 credits

- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1
- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1
- PHY 2711 - Vibrations, Waves, and Mathematical Methods **Credits:** 4
- PHY 2811 - Modern Physics I **Credits:** 4
- PHY 2821 - Modern Physics Laboratory **Credits:** 1
- PHY 3011 - Modern Physics II **Credits:** 3
- PHY 3711 - Physics Laboratory I **Credits:** 2
- PHY 4921 - Physics Senior Seminar **Credits:** 1

### Electives: 8 credits

A minimum of 8 additional semester hours of upper-division physics courses, two (2) hours of which must be from either PHY 4611 or PHY 4711.

### Senior Experience: 3 credits

Students select a total of 3 credits for Senior Experience from the following:

- PHY 4611 - Computational Physics **Credits:** 3
- PHY 4711 - Advanced Physics I Laboratory **Credits:** 2
- PHY 4921 - Physics Senior Seminar **Credits:** 1

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Ancillary Courses	12 credits
Required Courses	25 credits
Major Electives	8 credits
Senior Experience	counted elsewhere in major
Minor and Unrestricted Electives	39-51 credits
<b>Total for the Physics Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed**

**may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Physics Major, B.A. with Secondary Science Teacher Licensure Concentration

[Department of Physics](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

The Department of Physics at the Metropolitan State University of Denver offers programs leading to a Bachelor of Science in Physics, a Bachelor of Arts in Physics, and a minor in physics. We also offer a Bachelor of Arts in Physics with Secondary Science Teacher Licensure. We offer introductory courses designed for both STEM majors as well as for the enrichment of non-science majors, including introductory physics, astronomy, and cosmology. We prepare our physics majors for graduate study in a wide range of disciplines including physics, astronomy, engineering, and science education, and for successful employment in technologically oriented industries. Our faculty are outstanding classroom teachers, bringing rigorous coursework, laboratory experience, advising and mentoring to our students. They maintain professional currency and engage in scholarly activities through involvement in undergraduate research, personalized professional development programs, and projects associated with teaching and learning. We seek to increase the science literacy of the Denver community through science outreach and an increasingly strong role in the education of future teachers.

Degree seeking candidates who wish to obtain Colorado teacher licensure for Secondary Science Education with a major in Physics must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Physics major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Physics education program meets the Colorado Science Licensure Standards and addresses the objectives of the General Science content area examination. The core curriculum adds a firm foundation in Biology, Chemistry, Earth and Space Science, and Mathematics. The Colorado Academic Standards are strongly emphasized within the curriculum. The core curriculum is supported by the depth of the major in Physics.

### Student Outcomes

#### Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching

- Teacher candidates will successfully complete student teaching

#### Physics Major B.A.

- Develop mathematical skills that facilitate their understanding of the fundamental principles of physics and enable problem solving.
- Apply advanced mathematical techniques (understanding vectors in multiple coordinate systems, solving differential equations, and basic computational skills).
- Use standard laboratory equipment to collect data and perform quantitative evaluations of the experimental outcome.
- Communicate the process and outcomes of scientific experiments using scientifically sound reports including posters, papers, and oral presentations.
- Demonstrate content and pedagogical expertise in teaching science.
- Plan and deliver effective instructions in science to the diverse body of students.
- Demonstrate knowledge of language acquisition and culturally linguistically diverse learners.

requirements for Additional Content Courses for Secondary Science Licensure. Depending on the course selected, this category may exceed 3 credits.)

- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** this category of General Studies can also be met by courses required in Additional Content Courses for Secondary Science Licensure. Depending on the course selected, this category may exceed 6 credits.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy
  - **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools
  - Note: these courses also meets the requirements in Foundation and Methods courses for Secondary Education. Depending on the course selected, this category may exceed 6 credits.
- Global Diversity (0 or 3 credits\*\*)

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minimum GPA of 2.75 in the Physics Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1410 - Calculus I (Note: this course also meets the Mathematics

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Physics Major Core Courses: 32 credits

- MTH 2420 - Calculus III **Credits:** 4
- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1
- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1
- PHY 2711 - Vibrations, Waves, and Mathematical Methods **Credits:** 4
- PHY 2811 - Modern Physics I **Credits:** 4
- PHY 2821 - Modern Physics Laboratory **Credits:** 1
- PHY 3011 - Modern Physics II **Credits:** 3
- PHY 3711 - Physics Laboratory I **Credits:** 2

- PHY 4921 - Physics Senior Seminar **Credits:** 1
- SCI 3950 - Teaching Science in Secondary Schools **Credits:** 3

## Additional Courses for Secondary Science Licensure: 33 credits

All students must complete courses in the following disciplines to prepare to teach Secondary Science. Ten or more credits in this category can also satisfy General Studies requirements for Quantitative Literacy and Natural and Physical Sciences.

### Biology Requirements (8 credits):

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1091 - General Biology Laboratory II **Credits:** 1

### Chemistry Requirements (10 credits):

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1

### Earth Space Science Requirements (7 credits):

- GEL 1010 - Physical Geology **Credits:** 4

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits:** 3  
OR
- GEG 1100 - Introduction to Physical Geography **Credits:** 3

### Mathematics Requirements (8 credits):

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4

## Foundation and Methods Courses for Secondary Education: 28 credits

All the courses in the this area are required for Secondary Science Licensure. Some course pairs must be taken together; please see an advisor in the School of Education for more detail on recommended sequence.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*  
[EDS 3130 and EDS 3140 must be taken concurrently.]
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3

- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*  
[EDS 3210 and EDS 3240 must be taken concurrently.]
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- CLD 3910 - Assessment of English Language Learners **Credits:** 3
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits:** 1  
[SCI 3950 (listed in the major) and SCI 3960 must be taken concurrently]
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12 \*\*

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Physics Major Core Courses	32 credits
Additional Courses for Secondary Science Licensure	33 credits
Foundation and Methods Courses for Secondary Education	28 credits
Senior Experience	12 credits
<b>Total for the Physics Major, B.A. with Secondary Science Teacher Licensure Concentration</b>	<b>123 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Physics Major, B.S.

[Department of Physics](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor IS required for this program.

### About the Program

The Department of Physics at the Metropolitan State University of Denver offers programs leading to a Bachelor of Science in Physics, a Bachelor of Arts in Physics, and a minor in physics. We also offer a Bachelor of Arts in Physics with Science Licensure. We offer introductory courses designed for both STEM majors as well as for the enrichment of non-science majors, including introductory physics, astronomy, and cosmology. We prepare our physics majors for graduate study in a wide range of disciplines including physics, astronomy, engineering, and science education, and for successful employment in technologically oriented industries. Our faculty are outstanding classroom teachers, bringing rigorous coursework, laboratory experience, advising and mentoring to our students. They maintain professional currency and engage in scholarly activities through involvement in undergraduate research, personalized professional development programs, and projects associated with teaching and learning. We seek to increase the science literacy of the Denver community through science outreach and an increasingly strong role in the education of future teachers.

### Student Outcomes

- develop mathematical skills that facilitate their understanding of the fundamental principles of physics and enable problem solving.
- apply advanced mathematical techniques (understanding vectors in multiple coordinate systems, solving differential equations, and basic computational skills).
- use standard laboratory equipment to collect data and perform quantitative evaluations of the experimental outcome.
- communicate the process and outcomes of scientific experiments using scientifically sound reports including posters, papers, and oral presentations.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Ancillary Courses: 16 credits

- MTH 1410 - Calculus I **Credits: 4**
- MTH 2410 - Calculus II **Credits: 4**
- MTH 2420 - Calculus III **Credits: 4**
- MTH 3420 - Differential Equations **Credits: 4**

### Required Courses: 42 credits

- PHY 2311 - General Physics I **Credits: 4**
- PHY 2321 - General Physics I Laboratory **Credits: 1**
- PHY 2331 - General Physics II **Credits: 4**
- PHY 2341 - General Physics II Laboratory **Credits: 1**
- PHY 2711 - Vibrations, Waves, and Mathematical Methods **Credits: 4**
- PHY 2811 - Modern Physics I **Credits: 4**

- PHY 2821 - Modern Physics Laboratory **Credits:** 1
- PHY 3011 - Modern Physics II **Credits:** 3
- PHY 3211 - Analytical Mechanics **Credits:** 4
- PHY 3411 - Thermal Physics **Credits:** 3
- PHY 3711 - Physics Laboratory I **Credits:** 2
- PHY 3811 - Quantum Physics **Credits:** 4
- PHY 4331 - Electricity and Magnetism **Credits:** 4
- PHY 4711 - Advanced Physics I Laboratory **Credits:** 2
- PHY 4921 - Physics Senior Seminar **Credits:** 1

Select one of the following tracks: 5-6 credits

**Applied Physics Track:** Two of the following electives:

- PHY 4510 - Optics **Credits:** 3
- PHY 4650 - Solid State Physics **Credits:** 3
- PHY 4721 - Advanced Physics II Laboratory **Credits:** 2

**Astrophysics Track:** Two of the following electives:

- AST 3141 - Astronomical Techniques I **Credits:** 3
- PHY 4550 - Astrophysics **Credits:** 3
- PHY 4560 - Planetary Physics **Credits:** 3
- PHY 4950 - General Relativity **Credits:** 3

**Fundamentals of Physics Track:**

Any five credits of upper-division electives are allowed, with the exception of PHY 3620 and AST 3040. If all three of PHY 4650, PHY 4810, and PHY 4820 are taken (for 9 cr), then Modern Physics II (PHY 3011, 3 cr) is *not* required as these classes cover the same material but with a higher level of rigor.

**Senior Experience:** 3 credits

- PHY 4611 - Computational Physics **Credits:** 3

**Summary of Requirements**

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Ancillary Courses	16 credits
Required Courses	42 credits
Selected Track	5-6 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	17-30 credits
<b>Total for the Physics Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed**

**may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Physics Minor

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required. Also note that per university policy at least three 3000 or 4000 level credits are required for a minor.

## Required Courses:

Physics utilizes practical math to make predictions about the natural world. A minor in physics cements the experimental expertise that scientists require and provides a strong basis for understanding how science is applied in society.

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1
- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1
- PHY 2811 - Modern Physics I **Credits:** 4

**Subtotal: 14 credits**

## Electives

A minimum of 5 additional semester hours, including at least 3 upper division (3000+ level) credits, must be selected from the following list:

- AST 3141 - Astronomical Techniques I **Credits:** 3
- PHY 2711 - Vibrations, Waves, and Mathematical Methods **Credits:** 4
- PHY 2811 - Modern Physics I **Credits:** 4
- PHY 2821 - Modern Physics Laboratory **Credits:** 1
- PHY 3120 - Methods of Mathematical Physics **Credits:** 3
- PHY 3211 - Analytical Mechanics **Credits:** 4
- PHY 3411 - Thermal Physics **Credits:** 3
- PHY 3711 - Physics Laboratory I **Credits:** 2
- PHY 3721 - Physics Laboratory II **Credits:** 2
- PHY 3811 - Quantum Physics **Credits:** 4
- PHY 4331 - Electricity and Magnetism **Credits:** 4
- PHY 4440 - Electricity and Magnetism II **Credits:** 3
- PHY 4510 - Optics **Credits:** 3
- PHY 4550 - Astrophysics **Credits:** 3
- PHY 4560 - Planetary Physics **Credits:** 3
- PHY 4611 - Computational Physics **Credits:** 3
- PHY 4630 - Continuum Physics **Credits:** 3
- PHY 4650 - Solid State Physics **Credits:** 3

- PHY 4711 - Advanced Physics I Laboratory **Credits:** 2
- PHY 4721 - Advanced Physics II Laboratory **Credits:** 2
- PHY 4810 - Atomic and Molecular Structure **Credits:** 3
- PHY 4820 - Subatomic Physics **Credits:** 3
- PHY 4950 - General Relativity **Credits:** 3

**Subtotal: 5 credits**

Total: 19

### Required Ancillary Courses for a Minor:

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4

**Subtotal: 8 credits**

Total Ancillary Courses: 8

### Note:

*A one-year sequence of PHY 2010 - PHY 2020 - PHY 2030 - PHY 2040 may be substituted for the PHY 2311 - PHY 2331 - PHY 2321 - PHY 2341 requirements with the consent of the Physics Department.*

## Department of Political Science

The study of political science is mainly the study of governments: their social and economic environments, how they are organized, how and why they decide upon and carry out policies, and how nation-states interact on the world scene. The discipline also includes the study of political ideas and values, past and present, citizen behavior, and recent trends in methods of research and analysis aimed at enlarging our knowledge of political processes. In this sense, the Department of Political Science provides students with the perspective and background necessary to understand the complex and often confusing reality of politics.

### Academic Programs

- [Political Science Major, B.A.](#)
- [Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Political Science Minor](#)
- [Leadership Studies Minor](#)
- [Legal Studies Minor](#)
- [Native American Studies Minor](#)
- [Public Affairs and Administration Minor](#)

### Prelaw

The Department of Political Science offers prelaw advising to all students at the University regardless of a student's major field of study. If you are thinking of applying to law school or would like

more information on the LSAT or law school admission standards, please contact a Prelaw Advisor:

- Dr. Jeremy Castle

Please review the Prelaw Webpage for more information.

## Leadership Studies Minor

Leadership is a subject of vital importance. It is a topic that cuts across time and place, as well as traditional disciplinary boundaries. As such, leadership is extremely relevant in a broad range of contexts from local and global politics to business, ethics, and education. This minor offers students a conceptual understanding of leadership studies that, when combined with co-curricula and experiential components, provides them with an increased awareness of their role in a world of multi-layered change.

### Required Courses:

- LDR 1010 - Leadership and Social Change **Credits:** 3
  - LDR 3010 - Perspectives on Leadership **Credits:** 3
- Subtotal: 6

### Electives: (12 credit hours)

#### I. Leadership Process and Organization

(2 to 9 credit hours)

- HSP 2020 - Small Group Dynamics: Theory and Experience **Credits:** 4 \*
- MGT 3000 - Organizational Management **Credits:** 3
- COMM 3340 - Leadership Communication **Credits:** 3 \*
- HSP 3220 - Conflict Resolution and Decision Making **Credits:** 3
- PSY 3450 - Organizational Psychology **Credits:** 3 \*
- MGT 4530 - Organizational Behavior **Credits:** 3 \*

\* Courses marked with an asterisk have prerequisites beyond completing General Studies requirements and do not have the "or permission of instructor" option.

#### II. Leaders in Context

(3 to 9 credit hours)

- PHI 1030 - Introduction to Ethics **Credits:** 3
- PSC 3170 - Leadership Studies **Credits:** 3
- GWS 3170 - Social Justice, Self, and Citizenship: A Service Learning Course **Credits:** 3 \*
- HIS 3675 - The American Presidency **Credits:** 3
- or-
- PSC 3130 - The American Presidency **Credits:** 3

- SOC 3750 - Social Change **Credits: 3 \***
- PSC 3800 - On Leaders and Leadership **Credits: 3**

\* Courses marked with an asterisk have prerequisites beyond completing General Studies requirements and do not have the "or permission of instructor" option.

### III. Leadership in Multicultural Perspective

(0 to 3 credits)

- AAS 2000 - Social Movements and the Black Experience **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits: 3**
- NAS 3200 - Native American Politics **Credits: 3**

**Subtotal: 12 credit hours**

### Internship/Service Learning (3 credit hours)

This 3-credit requirement can be fulfilled by either an internship or a service-learning experience offered through any department of the student's choosing. The internship or service-learning activity must follow the guidelines established by the participating department and must be approved by the director of the Leadership Studies program, as well.

Students who are in an ROTC program may count up to six hours of leadership-oriented courses in Military Science toward the Leadership Studies minor with approval of program coordinator.

**Total for Minor: 21 credit hours**

This includes participation in leadership projects and workshops.

### Legal Studies Minor

The rule of law is a concept vital to any understanding of the world in which we live. The Legal Studies Minor is thus intended to meet the needs of all students who have an interest in the subject, regardless of their major, as well as serving the interests of students who have plans to attend law school after graduation. In that regard, the minor offers a variety of perspectives on the laws that help illuminate the principles, practices, and policies associated with the subject to the benefit of all students in general, as well as future practitioners.

Students should note that while many of the courses in the minor have only General Studies prerequisites or can be taken with the permission of the instructor, there are several with more specific requirements. For example, MGT 3230 has a prerequisite of MGT

2210 and both courses are designated electives in the minor. Students should keep this in mind and discuss options with the coordinator of the minor in the Political Science Department so that they move toward graduation in a timely manner.

### Core Courses

Students must take a minimum of 12 semester hours from the core courses below:

- CJC 2050 - American Judicial System **Credits: 3**
- PHI 3430 - Philosophy of Law **Credits: 3**
- PSC 3120 - American Constitutional Law **Credits: 3**
- PSC 3150 - Law and Society **Credits: 3**
- SOC 3550 - Sociology of Law **Credits: 3**

### Elective Courses

Students must take a minimum of 3 semester hours from the elective courses below:

- CHS 3200 - Chicanos and the Law **Credits: 3**
- CJC 2100 - Criminal Law **Credits: 3**
- CJC 3110 - Constitutional Issues in Criminal Procedure and Evidence **Credits: 3**
- JMP 3780 - Communication Law **Credits: 3**
- MGT 2210 - Legal Environment of Business I **Credits: 3**
- MGT 3220 - Legal Environment of Business II **Credits: 3**
- MGT 3230 - International Business Law **Credits: 3**
- NAS 3110 - Federal Indian Law **Credits: 3**
- PSC 3320 - International Law **Credits: 3**
- GWS 3310 - Women and the Law **Credits: 3**

**Total for Minor: 21 credits**

*Note: A legal-oriented internship within any department with the approval of that department and minor can be used in the elective category.*

### Native American Studies Minor

Offered by the Political Science Department, this minor is intended for those students interested in studying Native Americans with specific focus in history, culture, politics and current issues of indigenous peoples within the United States. The minor provides an opportunity for students to bring a unique multidisciplinary perspective to their already chosen area of interest. A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

### Required Courses:

- NAS 1000 - Introduction to Native American Studies **Credits: 3**

- NAS 3200 - Native American Politics **Credits:** 3

Subtotal: 6

Choose three of the following courses:

- ANT 3310 - Ethnography of North American Indians **Credits:** 3
- ANT 3610 - Colorado Archaeology **Credits:** 3
- ENG 2240 - Introduction to Native American Literature **Credits:** 3
- HIS 3490 - Native American History **Credits:** 3
- NAS 3300 - Indigenous Geographies of North America **Credits:** 3

Subtotal: 9

Choose two of the following courses:

- ANT 3340 - Native Americans in Historical Perspective **Credits:** 3
- ANT 3660 - Archaeology of the Americas **Credits:** 3
- ARTH 3300 - Multiculturalism and American Art **Credits:** 3

Subtotal: 6

Total for minor: 21

Note:

In addition to the courses listed, there may be other classes offered under the variable topic, omnibus or internship heading that are appropriate for this minor. Such classes may be substituted for courses listed above in any of the categories by the faculty member coordinating the minor within the Political Science Department. The same is true for classes transferred from other institutions.

## Political Science Major, B.A.

[Department of Political Science](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [Online](#), [In-Person](#), [Hybrid](#)

## About the Program

The Bachelor of Arts in Political Science provides students the substantive knowledge and applied skills to successfully navigate the political and public worlds, whether at the local, state or national levels, and across the globe. Students concentrate in Comparative

Politics and International Relations or American Politics and Public Policy. The program is designed for students interested in a variety of career fields, including public service, public administration, public policy, campaigns and elections, international affairs, the Foreign Service, and public advocacy at all levels. The program also provides the necessary foundation for successful applications to graduate and law schools.

## Student Outcomes

- Link theory and practice and apply political science knowledge and skills to actual problem-solving and community service; acquire citizenship skills, ethical values, and understand and appreciate human diversity; and engage in community life as active citizens.
- Demonstrate substantive knowledge of institutions, processes, behaviors and values that shape politics within or among States.
- Understand the history of classical and modern political thought, the fundamental values and ethical issues contested in politics over time, and alternative moral and ethical frameworks for interpreting contemporary political discourses.
- Understand political science research and analytical skills, including critical thinking, logical argumentation, and how to collect, analyze and interpret evidence and data to formulate reasoned conclusions.
- Effectively deliver professional written communications.
- Understand and interpret qualitative and quantitative evidence and data, and formulate and communicate reasoned conclusions from these methods.
- Effectively engage in oral communications and presentations in professional fields related to politics, public policy and the law.
- Understand career options available with an undergraduate degree in political science; its utility in the public and private sectors; and its value as entry into a range of graduate programs and law schools.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*)

\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - PSC 1030 - Multicultural Politics for Non-Majors fulfills both a lower division elective as well as the Multicultural Graduation Requirement.

## Required Courses: 12 credits

- PSC 1010 - American National Government **Credits: 3**
- PSC 1020 - Comparative Politics **Credits: 3**
- PSC 2020 - Conducting Political Analysis **Credits: 3**  
or
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**
- PSC 3050 - Political Theory **Credits: 3**

## Electives: 21 credits

A minimum of 21 additional semester hours of political science must be completed. At least 18 of these 21 hours must be upper-division courses (3000- and 4000-level) and must be approved by the department. Generally, students may apply only 6 hours of credit in internship courses toward the major as approved electives. Of the 21

elective hours in political science, 12 must be in the student's primary area of study: American politics or international/comparative politics. A minimum of 3 hours must be drawn from the remaining area of concentration and 6 hours can be selected at the student's discretion.

## Senior Experience: 3 credits

- PSC 4020 - Special Studies **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	12 credits
Major Electives	21 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	48-57 credits
<b>Total for the Political Science Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Political Science](#)

Available Program Format(s): In-Person

[College of Letters, Arts and Sciences](#)

## About the Program

The Political Science Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach Social Studies in Colorado. The program includes a Political Science Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure. Degree seeking students who wish to obtain Colorado Licensure for Secondary Social Studies with a major in Political Science must earn a Bachelor of Arts (B.A.) degree. In addition to course requirements in the major, all Social Studies licensure candidates must complete a core curriculum that provides a foundation in History, Geography, Economics, and Behavioral Science and addresses the objectives of the content area examination. The core curriculum is supported by courses in the major. The Political Science major will take courses in political theory, political analysis, and coursework in American or international/comparative political systems.

## Student Outcomes

- Link theory and practice and apply political science knowledge and skills to actual problem-solving and community service; acquire citizenship skills, ethical values, and understand and appreciate human diversity; and engage in community life as active citizens.
- Demonstrate substantive knowledge of institutions, processes, behaviors and values that shape politics within or among States.
- Understand the history of classical and modern political thought, the fundamental values and ethical issues contested in politics over time, and alternative moral and ethical frameworks for interpreting contemporary political discourses.
- Understand political science research and analytical skills, including critical thinking, logical argumentation, and how to collect, analyze and interpret evidence and data to formulate reasoned conclusions.
- Effectively deliver professional written communications.
- Understand and interpret qualitative and quantitative evidence and data, and formulate and communicate reasoned conclusions from these methods.
- Effectively engage in oral communications and presentations in professional fields related to politics, public policy and the law.
- Understand career options available with an undergraduate degree in political science; its utility in the public and private sectors; and its value as entry into a range of graduate programs and law schools.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 124 semester hours are required for graduation.
- All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
- **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
- **Recommended:** Two of the following- ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of Macroeconomics; ECO 2020 - Principles of Microeconomics; GEG 1000 - World Regional Geography
- Global Diversity (0 or 3 credits)\*\*

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Political Science Major Core: 18 credits

The Political Science Major Core includes eighteen credits.

- PSC 1010 - American National Government **Credits:** 3
- PSC 1020 - Comparative Politics **Credits:** 3
- PSC 2230 - Introduction to International Relations **Credits:** 3
- PSC 2020 - Conducting Political Analysis **Credits:** 3
- or
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits:** 3
- PSC 3050 - Political Theory **Credits:** 3
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits:** 3

## Political Science Major Electives: 18 credits

A minimum of 18 additional semester hours of political science must be completed for the Major. These 18 credit hours must be upper-division courses (3000- and 4000-level) and must be approved by the department. Generally, students may apply only 12 hours of credit in non-classroom courses toward the major as approved electives.

## Additional Content Courses for Secondary Social Studies Licensure: 27 credits

All students must complete nine Social Science courses for this concentration. Note that twelve course credits below can also satisfy General Studies requirements in these categories: Historical (3 credits); Natural and Physical Sciences (3 credits); Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits:** 3
- HIS 1040 - World History since 1500 **Credits:** 3
- HIS 1210 - American History to 1865 **Credits:** 3
- HIS 1220 - American History since 1865 **Credits:** 3
- ANT 2330 - Cross-Cultural Communication **Credits:** 3
- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- GEG 1000 - World Regional Geography **Credits:** 3
- GEG 1100 - Introduction to Physical Geography **Credits:** 3

## Foundation and Methods for Secondary Education: 31 credits

The Secondary Education Licensure Program prepares candidates to teach Social Studies in grades 6-12. With the courses and field experiences below, candidates satisfy the Colorado Department of Education Teacher Quality Standards for licensure in Secondary Education. Many of the courses in this section of the degree program require admission to the MSU Denver School of Education. Please see a School of Education advisor or the MSU Denver School of Education website for details.

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- CLD 3910 - Assessment of English Language Learners **Credits:** 3
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3

- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits:** 1 (60-hour field experience, taken concurrently with HIS 4010 Methods of Teaching Social Science)
- MTH 1610 - Integrated Mathematics I **Credits:** 3 (Satisfies a General Studies requirement)
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Political Science Major Core	18 credits
Political Science Major Electives	18 credits
Additional Content Courses for Secondary Social Studies Licensure	27 credits
Foundation and Methods for Secondary Education	31 credits
Senior Experience	12 credits
<b>Total for the Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration</b>	<b>124 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Political Science Minor

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses:

- PSC 1010 - American National Government **Credits:** 3
- PSC 1020 - Comparative Politics **Credits:** 3
- PSC 3050 - Political Theory **Credits:** 3

Subtotal: 9

Electives:

A minimum of 12 additional semester hours are required in political science courses. At least 9 of these 12 hours must be in upper-division courses (3000- and 4000-level) and must be approved by the department. Generally, students may apply only 6 hours of credit in nonclassroom courses toward the major as approved electives.

Subtotal: 12

Total: 21

## Public Affairs and Administration Minor

The Public Affairs and Administration Minor offered by the Department of Political Science at MSU Denver is designed to meet the needs for an undergraduate curriculum which develops the skills necessary for a career in public affairs. By recognizing the intersection between public management and policy, the demand for analytic skill sets and a knowledge base that can meet the flexible and evolving nature of public service, the minor offers students a range of courses that link theory and practice in the development and implementation of public policy in a wide range of public affairs contexts.

The courses are intended for students who plan a career in public policy and service in local, state or federal governments, policy oriented non-governmental organizations, or those already employed in these sectors. This minor also provides a solid foundation for graduate studies in public affairs, public administration and public policy.

A grade of "C-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required.

## Required Courses

Basic courses required for all public administration minors:

- PSC 1010 - American National Government **Credits: 3**
- PSC 3020 - Introduction to Public Administration **Credits: 3**
- PSC 3250 - Policy Analysis and Program Evaluation **Credits: 3 \***

**Subtotal: 9 credits**

## Elective Courses

Select three of the following courses:

- PSC 3000 - American State and Local Government **Credits: 3**
- PSC 3090 - Current Topics in Political Science: Variable Topics **Credits: 3**

- PSC 3130 - The American Presidency **Credits: 3**
- PSC 3140 - The American Congress and Legislative Process **Credits: 3**
- ACC 3200 - Governmental Accounting **Credits: 3 \*\***
- PSC 3220 - Public Policy **Credits: 3**
- PSC 3230 - Environmental Politics **Credits: 3**
- PSC 3330 - International Organizations **Credits: 3**
- MGT 3530 - Human Resources Management **Credits: 3 \*\***
- PSC 3980 - Internship in Political Science **Credits: 1-15**

**Subtotal: 9 credits**

**Total: 18 credits**

## Notes

*\*This course prerequisite of MTH 1210 may be used for General Studies.*

*\*\*ACC 3510 is a prerequisite for this course.*

*\*\*MGT 3000 is a prerequisite for this course.*

## Department of Psychological Sciences

### Student Outcome Goals for Department of Psychological Sciences

Upon completion of a degree program in psychological sciences, students will be able to:

- Demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.
- Demonstrate the skills to apply scientific inquiry and critical thinking skills to interpret psychological phenomena and engage in innovative and integrative thinking and problem solving.
- Demonstrate ethical and social responsibility in a diverse world by adhering to professional values even when working with those who do not share their heritage and traditions.
- Demonstrate competence in writing and oral and interpersonal communication skills.
- Demonstrate an application of psychology-specific content and skills, effective self-reflection, project-management skills, teamwork skills, and career preparation.

### Academic Programs

- [Psychology Major, B.S.](#)
- [Psychology Minor](#)
- [Human Development and Family Studies Major, B.A.](#)
- [Human Development and Family Studies Minor](#)

### Human Development and Family Studies Major, B.A.

## About the Program

The major in human development and family studies provides students with in-depth knowledge about theory, research, and application in human development across the lifespan, with particular emphasis on the family as a developmental context. Through coursework and applied assignments, students make connections between theory, research, and practice. The major emphasizes developmentally appropriate and best practices in working with children, adolescents, adults, and their families to enhance positive developmental outcomes in a variety of career settings, including hospitals, counseling, child-care, schools and other social institutions.

## Student Outcomes

- Explain human development across the lifespan in applied contexts such as families, hospitals, counseling, child care, schools, and social institutions.
- Examine and apply cognitive development and learning principles in a variety of contexts.
- Examine and apply principles of social development in a variety of contexts to best support the development of individuals, couples and families.
- Explain and identify biological influences on development across the lifespan.
- Interpret and critique development research and methodologies, applying those methods to solve real world problems.
- Recognize cultural and individual differences and their impact on development.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "D-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- HDFS majors must have a GPA of 2.00 in their major and an overall GPA of 2.00 to graduate.
- A minor is required for this program.

- All students must complete a minimum of 15 semester hours of upper-division in the HDFS major.
- In meeting the requirements for the HDFS major, transfer students must take a minimum of 15 semester hours of HDFS major coursework at MSU Denver, of which at least 9 must be upper-division credits.
- The Department of Psychological Sciences does not accept correspondence study courses toward the total number of semester hours required for a major or minor.
- Transfer students must have completed both semesters of a two-semester introductory psychology course for equivalence to exist. Three semester hours will count toward the major or minor; three semester hours will count as general electives (i.e., PSY8888) to graduate. If a student has taken only one semester of a two-semester introductory course and takes PSY 1001 at MSU Denver, the transfer introductory credits will not count toward the degree.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Two Psychology courses may be used to fulfill the Multicultural Requirement. These are:
  - PSY 3030 - Multicultural Psychology
  - PSY 3700 - Psychology of Group Prejudice

## Core Courses: 15 Credits

Students must take all of the following core classes:

- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 2210 - Psychology of Human Development **Credits: 3**
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**

- PSY 3340 - Cognitive Development and Learning **Credits: 3**
- PSY 3350 - Psychology of Social Development **Credits: 3**

### Developmental Foundation Courses (Choose four): 12 credits

- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- PSY 2240 - Parenting Across the Lifespan **Credits: 3**
- PSY 3240 - Infancy **Credits: 3**
- PSY 3250 - Child Psychology **Credits: 3**
- PSY 3260 - Psychology of Adolescence **Credits: 3**
- PSY 3270 - Adulthood and Aging **Credits: 3**
- PSY 3400 - Child Psychopathology **Credits: 3**

### HDFS Breadth (Choose four; students can also choose from any additional developmental foundation courses listed above): 12 credits

- Students should choose their breadth courses in consultation with a HDFS advisor to ensure these courses best prepare them for their future career and/or graduate school goals.
- The following courses can be taken twice but no more than 6 hours may be used as part of the major: PSY 3370 - Undergraduate Research Assistant, PSY 3390 - Undergraduate Teaching Assistant Training, PSY 3980 - Internship in Psychology and/or PSY 4650 - Advanced Internship in Psychology, combined, and PSY 4980 - Independent Study. To enroll in any of these specialty classes, please consult with an advisor.
- PSY 2001 - Careers and Professional Development in Psychology **Credits: 3**
- PSY 2270 - Death and Dying **Credits: 3**
- PSY 3030 - Multicultural Psychology **Credits: 3**  
OR
- PSY 3700 - Psychology of Group Prejudice **Credits: 3**  
\*PSY 3030 and PSY 3700 meet the Multicultural Requirement
- PSY 3050 - Psychology of Gender **Credits: 3**
- PSY 3370 - Undergraduate Research Assistant **Credits: 3**
- PSY 3390 - Undergraduate Teaching Assistant Training **Credits: 3**
- PSY 3540 - Cognitive Aging **Credits: 3**
- PSY 3980 - Internship in Psychology **Credits: 1-3**
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits: 3**
- PSY 4450 - Advanced Statistics: SPSS **Credits: 3**
- PSY 4970 - Psychology of the Scholarship of Teaching and Learning **Credits: 3**
- COMM 3210 - Family Communication **Credits: 3**
- CHS 3210 - The Chicano Family **Credits: 3**
- HSP 2040 - Family Systems **Credits: 4**
- NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3**
- SOC 3410 - The Family and Society **Credits: 3**
- SWK 1010 - Introduction to Social Work **Credits: 3**
- SWK 3010 - Social Work Practice with Children and Youth **Credits: 3**
- SWK 3030 - Social Work with Older People **Credits: 3**

- SWK 3080 - Social Work with Families **Credits: 3**
- SWK 3150 - Social Work and Child Maltreatment **Credits: 3**

### Senior Experience: 3 credits

- PSY 4700 - Senior Experience in Human Development and Family Studies **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Core Courses	15 credits
Developmental Foundation Courses	12 credits
HDFS Breadth	12 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-51 credits
<b>Total for the Human Development and Family Studies Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Human Development and Family Studies Minor

The minor in human development and family studies is designed for students who are interested in a career working with children, adolescents or adults, and emphasizes the family as an important developmental context. Students learn about developmentally appropriate practices in working with these populations which employers may value in a variety of career settings, including hospitals, counseling, child care, schools and other social institutions.

### Core Courses: 9 Credits

- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 2210 - Psychology of Human Development **Credits: 3**
- PSY 3340 - Cognitive Development and Learning **Credits: 3**  
OR
- PSY 3350 - Psychology of Social Development **Credits: 3**

Subtotal: 9

### Developmental Specialization (pick one)

- PSY 3240 - Infancy **Credits: 3**
- PSY 3250 - Child Psychology **Credits: 3**
- PSY 3260 - Psychology of Adolescence **Credits: 3**
- PSY 3270 - Adulthood and Aging **Credits: 3**

Subtotal: 3

### Applied Developmental Courses (pick one)

- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- PSY 2240 - Parenting Across the Lifespan **Credits: 3**
- PSY 2270 - Death and Dying **Credits: 3**
- PSY 3400 - Child Psychopathology **Credits: 3**

Subtotal: 3

### Interdisciplinary Applications (pick one)

- COMM 3210 - Family Communication **Credits: 3**
- CHS 3210 - The Chicano Family **Credits: 3**
- HSP 2040 - Family Systems **Credits: 4**
- NUT 3050 - Concepts of Lifecycle Nutrition **Credits: 3**
- SOC 3410 - The Family and Society **Credits: 3**
- SWK 1010 - Introduction to Social Work **Credits: 3**
- SWK 3010 - Social Work Practice with Children and Youth **Credits: 3**
- SWK 3030 - Social Work with Older People **Credits: 3**
- SWK 3080 - Social Work with Families **Credits: 3**
- SWK 3150 - Social Work and Child Maltreatment **Credits: 3**

Subtotal: 3

### Advising Notes

- At least 3 courses (9 semester hours) in the minor must be upper division, and 6 of those hours must be taken at MSU Denver.
- A grade of "D-" or better does count toward the bachelor's degree. However, HDFS majors must have a GPA of 2.00 in their major as well as an overall GPA of 2.00 to graduate. Students should note that programs differ in the minimum grade required.
- Transfer students must have completed both semesters of a two-semester introductory psychology course for equivalence to exist. Three semester hours will count toward the major or minor; three semester hours will count as general electives (i.e., PSY 8888) to graduate. If a student has taken only one semester of a two-semester introductory course and takes PSY 1001 at MSU Denver, the transfer introductory credits will not count toward the degree.

Total Hours Required for the Minor: 18

### Psychology Major, B.S.

[Department of Psychological Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [Online](#), [In-Person](#), [Hybrid](#)

### About the Program

The major in Psychology is designed to help prepare students who are pursuing a career that involves working with people and/or understanding people's thoughts, feelings, and behavior. The major provides students with a foundation in the science of behavior and mental processes, and the application of psychological principles to real-world problems. The coursework in the major exposes students to the major methods and subspecialties within the field of psychology, offering a broad foundational base. Students are also offered opportunities for applied experiences in the completion of the major, to allow specialized and practical training in the discipline. The major prepares students for post-graduate study or entry into the workplace upon graduation.

### Student Outcomes

- Demonstrate knowledge of major historical trends, basic principles, current issues, and emerging developments in psychology, and demonstrate the ability to apply knowledge to address simple problems and effect behavior change.
- Demonstrate the ability to communicate knowledge of the field of psychology, both orally and in writing, using a scientific approach. Written work shall include a research study or other psychological project using APA guidelines; oral presentations shall demonstrate effective communication skills that optimize information exchange.
- Apply psychological knowledge, skills, and values to work effectively and ethically with others in personal and professional settings at local, national, and/or global levels.
- Apply critical and skeptical inquiry, critical and scientific reasoning, and creative and integrative thinking to solve problems related to behavior.
- Demonstrate information literacy in the field of psychology.
- Demonstrate an ability to apply the fundamentals of research methodology, research ethics, and statistical analysis to the interpretation and evaluation of research.
- Recognize, understand, and respect the complexity of human diversity, and embrace the richness of experience and knowledge that sociocultural differences contribute to the human experience.
- Apply skills gained during schooling-like self-reflection, work ethic, time management, project management, and teamwork-to develop meaningful goals for life after graduation.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.

- A grade of "D-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- Psychology majors must have a GPA of 2.00 in their major and an overall GPA of 2.00 to graduate.
- A minor is required for this program.
- A total of 42 hours is required for the Psychology major.
- All students must complete a minimum of 15 semester hours of upper-division PSY coursework for the psychology major.
- In meeting the requirements for the psychology major, transfer students must take a minimum of 15 semester hours of psychology coursework at MSU Denver, of which at least 9 must be upper-division credits.
- Transfer students must have completed both semesters of a two-semester introductory psychology course for equivalence to exist. Three semester hours will count toward the major or minor; three semester hours will count as general electives (i.e., PSY8888) to graduate. If a student has taken only one semester of a two-semester introductory course and takes PSY 1001 at MSU Denver, the transfer introductory credits will not count toward the degree.
- Senior experience courses in the Department of Psychological Sciences require psychology majors to complete the Majors Field Test (MFT) prior to receiving a grade in the course. The MFT is taken at the Testing Center. Should a student elect to take multiple senior experience courses, or to repeat the same senior experience course, the MFT need only be completed in the 1st course.
- The Department of Psychological Sciences does not accept correspondence study courses toward the total number of semester hours required for a major or minor. However, correspondence study credit can count toward the degree.
- Students considering advanced degrees should be aware that, in addition to course work in the areas listed above, graduate programs often have specific undergraduate course prerequisites. Required or recommended courses, depending on the graduate program, include Theories of Personality, Abnormal Psychology, Psychology of Learning, Child Psychology, Behavioral Neuroscience, Organizational Psychology, Sensation and Perception, Internship in Psychology, Teaching of Psychology, and Advanced Statistics. Therefore, students should consult with a Department of Psychological Sciences advisor to choose appropriate psychology electives.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Recommended: A Biology course in partial fulfillment of their Natural and Physical Sciences requirement. Options to consider include:
  - BIO 1000 - Human Biology for Non-Majors

- BIO 1030 - General Biology for Non-Majors
- BIO 1080 - General Biology I / BIO 1090 - General Biology Laboratory I
- BIO 1081 - General Biology II / BIO 1091 - General Biology Laboratory II
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Two Psychology courses may be used to fulfill the Multicultural Requirement. These are:
  - PSY 3030 - Multicultural Psychology
  - PSY 3700 - Psychology of Group Prejudice

## Psychology Core: 13 credits

- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 2001 - Careers and Professional Development in Psychology **Credits: 3**
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**
- PSY 3010 - Research Methods in Psychological Science **Credits: 3**
- PSY 3011 - Laboratory for Research Methods in Psychological Science **Credits: 1**

## Content Areas: 12 credits

In addition, students must take one course in each of the following areas.

### Social

- PSY 2410 - Social Psychology **Credits: 3**
- PSY 3050 - Psychology of Gender **Credits: 3**
- PSY 3450 - Organizational Psychology **Credits: 3**
- PSY 3700 - Psychology of Group Prejudice **Credits: 3**

### Cognitive and Biological

- PSY 2120 - Brain and Behavior **Credits: 3**
- PSY 4520 - Sensation and Perception **Credits: 3**
- PSY 4540 - Behavioral Neuroscience **Credits: 3**
- PSY 4570 - Cognitive Psychology **Credits: 3**

## Clinical/Counseling

- PSY 2150 - Positive Psychology **Credits: 3**
- PSY 3000 - Theories of Personality **Credits: 3**
- PSY 3620 - Abnormal Psychology **Credits: 3**
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits: 3**

## Developmental

- PSY 2210 - Psychology of Human Development **Credits: 3**
- PSY 3250 - Child Psychology **Credits: 3**
- PSY 3260 - Psychology of Adolescence **Credits: 3**
- PSY 3270 - Adulthood and Aging **Credits: 3**

## Psychology Electives: 15 credits

A minimum of 15 additional semester hours in psychology courses selected in consultation with and approved by a Department of Psychological Sciences advisor.

- No more than 9 of these hours may be PSY 2950 courses, and,
- no more than 6 of these hours may be PSY 4980 - Independent Study, and,
- no more than 6 hours may be in PSY 3970 - Practicum and,
- no more than 6 hours may be in PSY 3980 - Internship in Psychology and/or PSY 4650 - Advanced Internship in Psychology, combined.

## Senior Experience: 3 credits

- PSY 4320 - Advanced Psychological Research Methods **Credits: 3**  
or
- PSY 4330 - Psychology in the "Real World": Thinking Like a Psychologist **Credits: 3**  
or
- PSY 4510 - History and Systems of Psychology **Credits: 3**  
or
- PSY 4650 - Advanced Internship in Psychology **Credits: 3**

## Clinical and Counseling Concentration (optional)

The Clinical and Counseling Concentration in the Psychology Major is designed to better meet the needs of students who plan on a career and/or graduate school in the mental health field. The curriculum combines the foundational courses from the psychology major with the core courses from the clinical and counseling area.

Coursework examines the personal and interpersonal functioning of individuals, therapeutic skills, assessment/diagnosis, treatment and intervention. In addition to coursework, students are required to complete an internship at an approved facility as their senior experience.

The goals of the Clinical & Counseling Concentration in the Psychology Major are to:

- Prepare students for successful job placement and/or graduate admissions in clinical and counseling psychology
- Educate students on the basic principles, major theories, significant research findings, current issues, and emerging concepts in the field of mental health. This will include a focus on:
  - cognitive, behavioral, and emotional functioning of individuals
  - identification, assessment and understanding of personality, clinical disorders and other mental health problems
  - therapeutic skills
  - treatment and interventions
  - research methods
  - ethics
  - psychological well-being
  - working with diverse populations from a multicultural perspective
- Provide students with the opportunity to apply and build on their learning through an approved internship in the community
- Strengthen institutional linkages between MSU Denver and 1) local facilities that provide psychological services, and 2) clinical and counseling graduate schools.

## Psychology Core: 13 credits

- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 2001 - Careers and Professional Development in Psychology **Credits: 3**
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**
- PSY 3010 - Research Methods in Psychological Science **Credits: 3**
- PSY 3011 - Laboratory for Research Methods in Psychological Science **Credits: 1**

## Clinical and Counseling Core: 12 credits

- PSY 2150 - Positive Psychology **Credits: 3**
- PSY 3000 - Theories of Personality **Credits: 3**
- PSY 3620 - Abnormal Psychology **Credits: 3**
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits: 3**

## Content Areas: 9 credits

In addition, students must take one course in each of the following areas.

### Social

- PSY 2410 - Social Psychology **Credits: 3**
- PSY 3050 - Psychology of Gender **Credits: 3**
- PSY 3450 - Organizational Psychology **Credits: 3**
- PSY 3700 - Psychology of Group Prejudice **Credits: 3**

## Cognitive and Biological

- PSY 2120 - Brain and Behavior **Credits:** 3
- PSY 4520 - Sensation and Perception **Credits:** 3
- PSY 4540 - Behavioral Neuroscience **Credits:** 3
- PSY 4570 - Cognitive Psychology **Credits:** 3

## Developmental

- PSY 2210 - Psychology of Human Development **Credits:** 3
- PSY 3250 - Child Psychology **Credits:** 3
- PSY 3260 - Psychology of Adolescence **Credits:** 3
- PSY 3270 - Adulthood and Aging **Credits:** 3

## Psychology Electives: 6 credits

- Students must complete an additional 6 credits (i.e., 2 courses) of PSY-prefix courses, making a total of 43 hours in psychology.
- Any PSY course, with the exception of PSY8888, may be used toward meeting this requirement.
- No more than 3 hours in PSY&nbsp;3980 - Internship in Psychology may be used for the Clinical & Counseling Concentration.
- Psychology courses selected in consultation with and approved by a Department of Psychological Sciences advisor.

## Senior Experience: 3 credits

- PSY 4650 - Advanced Internship in Psychology **Credits:** 3

## Additional Requirements for all Psychology Majors

- BIO 1000 - Human Biology for Non-Majors **Credits:** 3  
or
- BIO 1030 - General Biology for Non-Majors **Credits:** 4  
or
- BIO 1080 - General Biology I **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1  
or
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1091 - General Biology Laboratory II **Credits:** 1  
*Or equivalent courses*

## Summary of Requirements

### Psychology Major, No Concentration

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Psychology Core	13 credits
Content Areas	12 credits

Psychology Electives	15 credits
Senior Experience	3 credits
Additional Requirements	3-4 credits
Minor and Unrestricted Electives	37-51 credits
<b>Total for the Psychology Major, B.S.</b>	<b>120 credits</b>

### Psychology Major with Clinical and Counseling Concentration

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Psychology Core	13 credits
Clinical and Counseling Core	12 credits
Content Areas	9 credits
Psychology Electives	6 credits
Senior Experience	3 credits
Additional Requirements	3-4 credits
Minor and Unrestricted Electives	37-51 credits
<b>Total for the Psychology Major, B.S., Clinical and Counseling Concentration</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Psychology Minor

The minor in Psychology is designed to help prepare students who are pursuing a career that involves working with people and/or understanding people's thoughts, feelings, and behavior. The minor provides a foundation in the science of behavior and mental processes and the application of psychological principles to real-world problems.

## Required Courses

- PSY 1001 - Introductory Psychology **Credits:** 3

**Subtotal: 3**

In addition to this required course, students must take at least one course each from any two of the four Content Areas listed below.

## Content Areas

### Social

- PSY 2410 - Social Psychology **Credits:** 3
- PSY 3050 - Psychology of Gender **Credits:** 3
- PSY 3450 - Organizational Psychology **Credits:** 3

- PSY 3700 - Psychology of Group Prejudice **Credits:** 3

## Cognitive and Biological

- PSY 2120 - Brain and Behavior **Credits:** 3
- PSY 4520 - Sensation and Perception **Credits:** 3
- PSY 4540 - Behavioral Neuroscience **Credits:** 3
- PSY 4570 - Cognitive Psychology **Credits:** 3

## Clinical/Counseling

- PSY 2150 - Positive Psychology **Credits:** 3
- PSY 3000 - Theories of Personality **Credits:** 3
- PSY 3620 - Abnormal Psychology **Credits:** 3
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits:** 3

## Developmental

- PSY 2210 - Psychology of Human Development **Credits:** 3
- PSY 3250 - Child Psychology **Credits:** 3
- PSY 3260 - Psychology of Adolescence **Credits:** 3
- PSY 3270 - Adulthood and Aging **Credits:** 3

Subtotal: 6

## Elective Courses

A minimum of 15 additional semester hours in psychology courses selected in consultation with and approved by a Department of Psychological Sciences advisor. No more than 9 of these hours may be PSY 2950 courses, and no more than 6 of these hours may be PSY 4980 - Independent Study and no more than 6 hours may be in PSY 3970 - Practicum and no more than 6 hours may be in PSY 3980 - Internship in Psychology and/or PSY 4650 - Advanced Internship in Psychology, combined.

Subtotal: 15

**Total Hours Required for the Minor: 23**

## Note:

At least 3 courses (9 credit hours) in the minor must be upper division, and 6 of those hours must be taken at MSU Denver. A grade of "D-" or better is required for each course in this program to count toward the minor. Students should note that programs differ in the minimum grade required. Psychology minors must have an overall GPA of 2.00 to graduate.

## Department of Sociology and Anthropology

## Anthropology

- [Anthropology Major, B.A.](#)
- [Anthropology Minor](#)

Anthropology studies human biological and cultural diversity through time and space. It encompasses all of humanity as well as our closest primate relatives, from the earliest prehistoric human ancestors to the varied societies inhabiting the world today. The Anthropology Program at MSU Denver is committed to enhancing student knowledge and appreciation of human beings as both a biological and a cultural species. Emphasizing a holistic approach, the program offers courses in each of the four traditional subfields of anthropology (cultural anthropology, biological anthropology, archaeology, and linguistic anthropology) and provides students with proven conceptual and methodological tools for observing and studying humans, both ancient and modern. Faculty and students apply anthropological concepts and perspectives to pressing social issues and problems through laboratory and field courses, internships, and community outreach programs. Overall, the program aims to foster appreciation of human similarities and differences, past and present, as well as attune students to the relationship between daily individual realities and larger social institutions at the local, national, and global levels. Given this foundation, the overarching goal of MSU Denver's Anthropology Program is to prepare students for future life experiences, whether personal, professional, or educational, in increasingly diverse and multicultural social environments, thereby enabling them to participate more fully in the global economy of the 21st century.

## Sociology

- [Sociology Major, B.A.](#)
- [Sociology Minor](#)

Sociology studies all of its aspects, from individuals to large organizations. The sociology major emphasizes understanding human behavior as situated in cultural values, norms, and social structures as well as various social, religious, political and economic institutions. Required courses provide practice in applying the sociological theories and research methods sociologists use to analyze issues and address problems in the everyday social world. This focus enables sociology majors to apply these skills in a variety of work-related settings, or as a solid foundation for graduate school. Contact the Department of Sociology and Anthropology for additional information.

A major in sociology requires that students take and pass 39 credits in sociology, with a minimum of a "C" in all sociology courses taken. The student majoring in sociology will take 21 required credits and 18 elective credits, for a total of 39 credits in the discipline. At least 12 upper-division semester hours in sociology must be completed at MSU Denver by students majoring in sociology.

## Anthropology Major, B.A.

- Anthropology majors must receive a grade of C- or better in every class for which the credits count toward the major. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## About the Program

Anthropology studies human biological and cultural diversity through time and space. It encompasses all of humanity as well as our closest primate relatives, from the earliest prehistoric ancestors to the varied societies inhabiting the world today. The Anthropology Program at MSU Denver is committed to enhancing student knowledge and appreciation of human beings as both a biological and a cultural species. Emphasizing a holistic approach, the Anthropology Program offers courses in each of the four traditional subfields of anthropology (cultural anthropology, biological anthropology, archaeology, and linguistic anthropology) and provides students with effective conceptual and methodological tools for observing and studying both ancient and modern humans.

## Student Outcomes

The MSU Denver Anthropology Program has the following student outcomes:

- **Understand fundamental concepts** - Describe fundamental concepts and approaches in anthropology.
- **Analyze human diversity** - Examine human diversity through time and space using anthropological theories, methods, and data.
- **Engage critically** - Implement anthropological skills, tools, and approaches toward professional, academic, and community engagement.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

The anthropology major requires a total of 36 semester hours, including the required core courses, practical courses, and electives listed below. The major also requires that students take an anthropology senior experience course. At least 12 upper-division semester hours in anthropology must be completed in residence at MSU Denver by students majoring in the field.

- A total of 120 semester hours are required for graduation.

**NOTE:** All majors are required to see an anthropology advisor within two semesters of declaring anthropology as a major.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Core Courses: 12 credits

Students are required to take the following four courses:

- ANT 1010 - Introduction to Biological Anthropology **Credits: 3**
- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**
- ANT 1650 - Ancient Civilizations **Credits: 3**
- ANT 2500 - Anthropology of Language **Credits: 3**

## Practical Courses: 6 credits

Students are required to take 6 credits of lab- or field-based courses in anthropology. Examples of courses currently offered by the department at this level include the following courses:

- ANT 2710 - Archaeological Field Research **Credits:** 3
- ANT 3000 - Quantitative Methods in Anthropology **Credits:** 3
- ANT 3330 - Japan: Culture, Communication, and Identity **Credits:** 3-6 (Study Abroad)
- ANT 3420 - Applied Anthropology **Credits:** 3
- ANT 3520 - Analyzing Talk and Interaction **Credits:** 3
- ANT 3790 - Human Osteology **Credits:** 3
- ANT 3800 - Forensic Anthropology **Credits:** 3
- ANT 3820 - Forensic Archaeology **Credits:** 3
- ANT 3860 - Paleopathology **Credits:** 3
- ANT 4100 - Biological Anthropology Research Design **Credits:** 3 (Senior Experience)
- ANT 4251 - Advanced Ethnographic Field Experience **Credits:** 3 (Senior Experience)
- ANT 4710 - Advanced Archaeological Research **Credits:** 3 (Senior Experience)

## Elective Courses: 15 credits

Students are required to take 15 semester hours of elective courses in anthropology. Examples of courses currently offered by the department include, but are not limited to, the following:

- ANT 2330 - Cross-Cultural Communication **Credits:** 3 (Multicultural)
- ANT 2350 - African Peoples and Cultures **Credits:** 3
- ANT 2360 - Living Culture and Language of the Mexican and Chicano **Credits:** 3
- ANT 2400 - Women's Folklore and Folklife **Credits:** 3
- ANT 2640 - Archaeology **Credits:** 3
- ANT 2700 - Museum Studies **Credits:** 3
- ANT 3100 - Human Evolution **Credits:** 3
- ANT 3110 - Race and Human Variation **Credits:** 3
- ANT 3122 - The Neanderthal Enigma **Credits:** 3
- ANT 3170 - Primate Adaptation and Evolution **Credits:** 3
- ANT 3300 - Exploring World Cultures: Variable Topics **Credits:** 3
- ANT 3310 - Ethnography of North American Indians **Credits:** 3 (Multicultural)
- ANT 3320 - Anthropology of Japan **Credits:** 3
- ANT 3340 - Native Americans in Historical Perspective **Credits:** 3
- ANT 3361 - Gender and Disaster **Credits:** 3
- ANT 3365 - Structural Violence, Poverty and Human Rights **Credits:** 3
- ANT 3375 - Food Cultures **Credits:** 3
- ANT 3379 - Middle Eastern Cultures **Credits:** 3
- ANT 3380 - Exploring Folklore **Credits:** 3
- ANT 3386 - Religious Narratives and Culture **Credits:** 3
- ANT 3391 - Approaching Culture: Past and Present **Credits:** 3
- ANT 3395 - Transnational Genders and Sexualities **Credits:** 3
- ANT 3480 - Cultural Diversity in Health and Illness **Credits:** 3 (Multicultural)
- ANT 3490 - Globalization and Culture **Credits:** 3

- ANT 3530 - Writing Systems and Scribal Traditions **Credits:** 3
- ANT 3540 - Women in the Developing World **Credits:** 3
- ANT 3600 - Archaeology of Eurasia and Africa **Credits:** 3
- ANT 3610 - Colorado Archaeology **Credits:** 3
- ANT 3630 - Archaeology of Ancient Egypt **Credits:** 3
- ANT 3640 - Biblical Archaeology **Credits:** 3
- ANT 3650 - 100,000 Years of War **Credits:** 3
- ANT 3660 - Archaeology of the Americas **Credits:** 3
- ANT 3840 - Introduction to Bioarchaeology **Credits:** 3

## Senior Experience: 3 credits

Students are required to take one of the following anthropology senior experience courses. These courses may also count toward the practical course requirement if a student takes more than one.

- ANT 4100 - Biological Anthropology Research Design **Credits:** 3
- ANT 4251 - Advanced Ethnographic Field Experience **Credits:** 3
- ANT 4710 - Advanced Archaeological Research **Credits:** 3

## Additional Course Offerings

In addition to the courses listed above, new classes may be developed as part of the permanent catalog offerings, and other courses that are appropriate for the major may be offered under the variable topics, omnibus, or internship headings. Please see an advisor for more information.

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	12 credits
Practical Courses	6 credits
Elective Courses	15 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	48-69 credits
<b>Total for the Anthropology Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Anthropology Minor

## About the Program

Anthropology studies human biological and cultural diversity through time and space. It encompasses all of humanity as well as our closest primate relatives, from the earliest prehistoric ancestors to the varied societies inhabiting the world today. The Anthropology Program at MSU Denver is committed to enhancing student knowledge and appreciation of human beings as both a biological and a cultural species. Emphasizing a holistic approach, the Anthropology Program offers courses in each of the four traditional subfields of anthropology (cultural anthropology, biological anthropology, archaeology, and linguistic anthropology) and provides students with effective conceptual and methodological tools for observing and studying both ancient and modern humans. An anthropology minor provides an opportunity for students to bring a unique anthropological perspective to their major area of interest.

## Student Outcomes

The MSU Denver Anthropology Program has the following student outcomes:

- **Understand fundamental concepts** - Describe fundamental concepts and approaches in anthropology.
- **Analyze human diversity** - Examine human diversity through time and space using anthropological theories, methods, and data.
- **Engage critically** - Implement anthropological skills, tools, and approaches toward professional, academic, and community engagement.

## Anthropology Minor Requirements

The anthropology minor requires a total of 18 credits, as outlined below. Students must earn a grade of C- or better in all courses required for the minor. Students should note that programs differ in the minimum grade required.

### Required Courses: 6 credits

Students are required to take the following two courses.

- ANT 1010 - Introduction to Biological Anthropology **Credits: 3**
- ANT 1310 - Introduction to Cultural Anthropology **Credits: 3**

### Electives: 12 credits

Students are required to take 12 additional semester hours of elective courses in anthropology, numbered 1000-4999. Examples of courses currently offered by the department include, but are not limited to, the following courses:

- ANT 1650 - Ancient Civilizations **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ANT 2350 - African Peoples and Cultures **Credits: 3**
- ANT 2360 - Living Culture and Language of the Mexican and Chicano **Credits: 3**
- ANT 2400 - Women's Folklore and Folklife **Credits: 3**
- ANT 2500 - Anthropology of Language **Credits: 3**

- ANT 2640 - Archaeology **Credits: 3**
- ANT 2700 - Museum Studies **Credits: 3**
- ANT 2710 - Archaeological Field Research **Credits: 3**
- ANT 3000 - Quantitative Methods in Anthropology **Credits: 3**
- ANT 3100 - Human Evolution **Credits: 3**
- ANT 3110 - Race and Human Variation **Credits: 3**
- ANT 3122 - The Neanderthal Enigma **Credits: 3**
- ANT 3170 - Primate Adaptation and Evolution **Credits: 3**
- ANT 3300 - Exploring World Cultures: Variable Topics **Credits: 3**
- ANT 3310 - Ethnography of North American Indians **Credits: 3**
- ANT 3320 - Anthropology of Japan **Credits: 3**
- ANT 3330 - Japan: Culture, Communication, and Identity **Credits: 3-6**
- ANT 3340 - Native Americans in Historical Perspective **Credits: 3**
- ANT 3361 - Gender and Disaster **Credits: 3**
- ANT 3365 - Structural Violence, Poverty and Human Rights **Credits: 3**
- ANT 3375 - Food Cultures **Credits: 3**
- ANT 3379 - Middle Eastern Cultures **Credits: 3**
- ANT 3380 - Exploring Folklore **Credits: 3**
- ANT 3386 - Religious Narratives and Culture **Credits: 3**
- ANT 3391 - Approaching Culture: Past and Present **Credits: 3**
- ANT 3395 - Transnational Genders and Sexualities **Credits: 3**
- ANT 3420 - Applied Anthropology **Credits: 3**
- ANT 3480 - Cultural Diversity in Health and Illness **Credits: 3**
- ANT 3490 - Globalization and Culture **Credits: 3**
- ANT 3520 - Analyzing Talk and Interaction **Credits: 3**
- ANT 3530 - Writing Systems and Scribal Traditions **Credits: 3**
- ANT 3540 - Women in the Developing World **Credits: 3**
- ANT 3600 - Archaeology of Eurasia and Africa **Credits: 3**
- ANT 3610 - Colorado Archaeology **Credits: 3**
- ANT 3630 - Archaeology of Ancient Egypt **Credits: 3**
- ANT 3640 - Biblical Archaeology **Credits: 3**
- ANT 3650 - 100,000 Years of War **Credits: 3**
- ANT 3660 - Archaeology of the Americas **Credits: 3**
- ANT 3790 - Human Osteology **Credits: 3**
- ANT 3800 - Forensic Anthropology **Credits: 3**
- ANT 3820 - Forensic Archaeology **Credits: 3**
- ANT 3840 - Introduction to Bioarchaeology **Credits: 3**
- ANT 3860 - Paleopathology **Credits: 3**
- ANT 4100 - Biological Anthropology Research Design **Credits: 3**
- ANT 4251 - Advanced Ethnographic Field Experience **Credits: 3**
- ANT 4400 - Current Issues in Anthropology: Variable Topics **Credits: 1-6**
- ANT 4710 - Advanced Archaeological Research **Credits: 3**

**Total: 18 credit hours**

## Sociology Major, B.A.

[Department of Sociology and Anthropology](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

Sociology studies all aspects of society, from individuals to large organizations. The Sociology major emphasizes understanding human behavior as situated in cultural values, norms, and social structures as well as various social, religious, political and economic institutions. Required courses provide practice in applying the sociological theories and research methods sociologists use to analyze issues and address problems in the everyday social world. This focus enables sociology majors to apply these skills in a variety of work-related settings, or as a solid foundation for graduate school. Contact the Department of Sociology and Anthropology for additional information.

## Student Outcomes

- Demonstrate knowledge of sociological theories and concepts necessary to understand human social behavior.
- Understands the statistical skills necessary to analyze and understand complex statistical relationships.
- Demonstrate the skills necessary to define problems, conduct research and apply this knowledge to solve social and work place related issues.
- Demonstrate general knowledge of core sociological concepts and theories regarding diversity, the urban environment, and social change.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- The student majoring in Sociology will take 21 required credits and 18 elective credits, for a total of 39 credits in the discipline. At least 12 upper-division semester hours in Sociology must be completed at MSU Denver by students majoring in Sociology.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** It is recommended that students fulfill this requirement with MTH 1210 - Introduction to Statistics.
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Courses: 18 credits

- SOC 1010 - People, Power, and Progress **Credits: 3**
- SOC 2600 - Art and Craft of Sociological Writing **Credits: 3**
- SOC 3320 - Sociological Theory: Past and Present **Credits: 3**
- SOC 3590 - Social Statistics **Credits: 3**  
*Note: MTH 1210 is a prerequisite for SOC 3590. MTH 1210 can be taken to fill the Quantitative Literacy requirement for General Studies.*
- SOC 3600 - Research in the Social Sciences **Credits: 3**
- Social Stratification Elective (one course selected from list below)

## Social Stratification Elective

Choose one course from the list below.

- SOC 3090 - Urban Sociology **Credits: 3**
- SOC 3220 - Prejudice and Discrimination **Credits: 3**
- SOC 3240 - Poverty and Inequality **Credits: 3**
- SOC 3430 - Gender and Society **Credits: 3**
- SOC 3710 - Politics and Power **Credits: 3**
- SOC 3810 - Population Issues: Life, Death and Migration **Credits: 3**
- SOC 4200 - Social Stratification **Credits: 3**

## Additional Electives: 18 credits

A minimum of 18 additional semester hours in sociology are required to complete the major. Students may choose as electives any additional courses offered in sociology. The department recommends that the student's choice of electives be made in consultation with a department advisor.

## Senior Experience: 3 credits

- SOC 4600 - Advanced Survey Research **Credits: 3**  
or
- SOC 4710 - Advanced Qualitative Methods **Credits: 3**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Major Requirements	18 credits
Electives	18 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	45-54 credits
<b>Total for the Sociology Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Sociology Minor

The Sociology minor requires a total of 18 hours, comprised of 6 hours of required courses and 12 hours of elective courses. The required courses are SOC 1010 and one course selected from the list of Social Stratification Electives. The minor requires a minimum grade of "C-" in all sociology courses, and at least 6 upper-division hours in sociology completed at MSU Denver. (Students should note that academic programs differ in the in the number of hours and minimum grade required.) The department recommends that students choose electives in consultation with a department advisor.

## Required Courses:

- SOC 1010 - People, Power, and Progress **Credits: 3**
- Social Stratification Elective (one course selected from list below)

## Social Stratification Elective

Choose one course from the list below

- SOC 3090 - Urban Sociology **Credits: 3**
- SOC 3220 - Prejudice and Discrimination **Credits: 3**

- SOC 3240 - Poverty and Inequality **Credits: 3**
- SOC 3430 - Gender and Society **Credits: 3**
- SOC 3710 - Politics and Power **Credits: 3**
- SOC 3810 - Population Issues: Life, Death and Migration **Credits: 3**
- SOC 4200 - Social Stratification **Credits: 3**

## Additional Electives: 12 credit hours

A minimum of 12 additional credit hours in sociology are required to complete the minor. Students may choose as electives any additional courses offered in sociology. The department recommends that the student's choice of electives be made in consultation with a department advisor.

## Total Credit hours in Minor: 18

## Department of Theatre and Dance

The Department of Theatre and Dance prepares students to pursue a wide range of career options in theatre, dance, entertainment industries, and other related fields. The flexibility offered by our degrees allows students to pursue a major or a minor that best meets their goals.

## Academic Programs

- [Theatre Major, B.A.](#)
- [Theatre Major, B.F.A.](#) (concentrations in Applied Theatre Technology and Design and Music Theatre)
- [Theatre Minor](#)
- [Dance Major, B.A.](#)
- [Dance Minor](#)

Students who pursue a B.A. in Theatre must also complete a minor. The B.F.A. in Theatre (with concentrations in Music Theatre or Applied Theatre Technology and Design) is a professional course of study that provides specialized training. The B.F.A. in Theatre does not require a minor. Please see additional admission requirements listed under the B.F.A. in Theatre.

Further information, including procedures and requirements, may be obtained from the Department of Theatre and Dance.

Students considering a major or minor in Theatre should consult with faculty for advising.

## Dance Major, B.A.

[Department of Theatre and Dance](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): In-Person

## About the Program

The MSU Denver Dance major is unique in its versatility and in its partnership with Cleo Parker Robinson Dance (CPRD). CPRD is recognized worldwide for their dynamic cross-cultural curriculum, community engagement, innovative choreography, and promotion of American dance heritage. In this exciting program, CPRD's mission of social transformation through dance and MSU Denver's academic rigor and focus on real-world experience converge.

The dance curriculum includes coursework in jazz, hip-hop, tap, African dance, belly dance, ballet, modern, Ballet Folklórico, dance history, community-based dance practices, somatics and anatomy, pedagogy, improvisation, choreography, contemporary dance and interdisciplinary performance, movement analysis, dance production, and arts entrepreneurship. The Dance Program allows students to combine their interest in dance with other fields, taking classes in non-profit management, teaching or arts administration, among others. The program utilizes service learning, field experience, and internship programs to enrich students' learning and to foster a connection between MSU and its student body and the Denver community. We aim to prepare students for their future in dance and beyond, supporting their specific career and educational goals through concrete learning experiences and creative exploration.

## Student Outcomes

- Students will understand and communicate the ways in which diverse dance practices reflect and contribute to historical, religious, sociopolitical, economic, and cultural contexts, using scholarly research, criticism, and analysis.
- Students will evaluate various entrepreneurship opportunities in dance, develop an original sustainable dance-related business, and/or create an artistic dance production suitable for a variety of contexts.
- Students will attain an intermediate level of technical movement competency, or higher, in at least one dance form by performing movement patterns skillfully and by demonstrating a kinesthetic understanding of proper alignment and body mechanics.
- Students will develop versatile performance capabilities and exhibit artistic intent through mind-body awareness, and by using space, time and energy expressively.
- Students will integrate innovative creative ideas, collaborative approaches, compositional skills, and/or theatrical elements in the creation of choreography, including a fully realized choreographic performance work that expresses meaning according to artistic intent, and which is presented in a public context.
- Students will examine the potential of dance as a tool for social change as they design a community-based performance project that includes a thoughtful project model and narrative, effective facilitation strategies, and relevant creative activities.
- Students will comprehend and implement a variety of pedagogical skills and methodologies as they present purposeful creative and/or technical exercises, teach

collaborative dance lessons, and design effective short and long-range instructional plans.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Dance majors must participate in a dance production every semester, starting in their third semester. Past dance production experience will be considered for transfer students and for those declaring their dance major after their sophomore year.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Areas of Emphasis in Dance

Below are recommended areas of emphasis; however, we encourage all students to create a customized program that suits their specific career goals. Students will consult with a faculty advisor to create a degree plan that includes electives centered around the selected emphasis.

**Performance and/or Choreography:** Ideal for students seeking a career in performance and/or choreography, or artistic direction.

- Recommended courses in Dance, Theatre, and Music, among others

**Dance Pedagogy:** Ideal for students seeking to own, manage, or teach at a studio. Also ideal for students aiming to get a dance endorsement along with their teaching license. A secondary dance endorsement enables graduates to teach dance in the public school system if they attain primary licensure through another discipline.

- Recommended courses in Education, Dance, and Psychology, among others

**Dance Organization/Nonprofit:** Ideal for students seeking a career in dance administration, entrepreneurship, nonprofit management, studio ownership, artist management, production/stagecraft, or grant writing/fundraising.

- Recommended courses in Human Services, Management, Entrepreneurship, Finance, Accounting, and Marketing, among others

**Social Transformation through Dance:** Ideal for students seeking to integrate dance into the community and/or arts programs as well as those interested in being a dance historian, writer and/or critic.

- Recommended courses in Africana Studies, Chicana/o Studies, Psychology, Social Work, and Gender, Women, and Sexualities Studies, among others

## Core Dance Courses: 33 credits

- DANC 1210 - Improvisation and Choreography **Credits: 3**
- DANC 3420 - Skills and Methods of Teaching Improvisation and Choreography **Credits: 3**
- DANC 3440 - Dance Production **Credits: 3**
- DANC 3410 - Skills and Methods of Teaching Dance Technique **Credits: 3**
- DANC 3905 - Dance Repertory **Credits: 3**
- DANC 3910 - Dancing Histories in a Global Context **Credits: 3**
- DANC 3920 - Dance Entrepreneurship **Credits: 3**
- DANC 3930 - Choreography II **Credits: 3**
- DANC 3940 - Experiential Movement, Somatics and Injury Prevention for Dance Artists **Credits: 3**
- DANC 4910 - Dance and Interdisciplinary Performance in the 20th Century and Beyond **Credits: 3**
- DANC 4920 - Community-Based Dance and Social Change **Credits: 3**

## Core Dance Technique Courses: 18 credits

Students choose from the below dance technique courses to attain 18 credits, according to level. At least 1 of these courses must be chosen from the following dance forms: African Dance, Ballet Folklórico, or Belly Dance.

- DANC 1020 - Ballet Folklórico **Credits: 2**
- DANC 1101 - Hip Hop I **Credits: 2**
- DANC 2201 - Hip Hop II **Credits: 2**
- DANC 1110 - Belly Dance I **Credits: 2**
- DANC 2210 - Belly Dance II **Credits: 2**
- DANC 1120 - African Dance and Drumming **Credits: 2**
- DANC 3835 - African Drum and Dance Ensemble **Credits: 1**
- DANC 1130 - Ballet Level I **Credits: 2**
- DANC 2230 - Ballet II **Credits: 2**
- DANC 3330 - Ballet III **Credits: 2**
- DANC 4430 - Ballet IV **Credits: 2**
- DANC 1160 - Jazz Level I **Credits: 2**
- DANC 2260 - Jazz II **Credits: 2**
- DANC 3360 - Jazz III **Credits: 2**
- DANC 4460 - Jazz IV **Credits: 2**
- DANC 1180 - Modern Dance I **Credits: 2**
- DANC 2280 - Modern Dance II **Credits: 2**
- DANC 3380 - Modern Dance III **Credits: 2**
- DANC 4480 - Modern Dance IV **Credits: 2**
- DANC 1240 - Tap Dance I **Credits: 2**
- DANC 2240 - Tap Dance II **Credits: 2**

## Dance Major Electives: 11 credits

In consultation with an advisor, the 11 dance major elective credits can be fulfilled through Field Experiences (up to 12 credits), Internships, additional technique courses, repetition of specific dance courses for credit, and/or through courses within other departments relevant to the student's area of emphasis.

- DANC 3040 - MSU Denver Dance Ensemble **Credits: 3**
- DANC 3391 - Cleo Parker Robinson International Summer Dance Institute I **Credits: 1**
- DANC 3392 - Cleo Parker Robinson International Summer Dance Institute II **Credits: 2**
- DANC 3750 - Study Abroad: Human Performance and Sport **Credits: 3**
- DANC 3980 - Internship for Dance **Credits: 3-9**
- DANC 3990 - Dance Field Experience **Credits: 1-3**
- DANC 4010 - Advanced/Professional Company Class **Credits: 2** (by audition)
- Courses through other departments relevant to area of emphasis
- Additional Technique courses
- Course Repetition (Technique courses, Dance Rep, and Dance Ensemble may be taken twice, Advanced/Professional Company may be taken by advanced dancers up to 5 times)

## Senior Experience

- DANC 4990 - Dance Senior Experience **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Dance Core Courses	33 credits
Dance Technique Courses	18 credits
Major Electives	11 credits
Senior Experience	3 credits
Unrestricted Electives	19-22 credits
<b>Total for the Dance Major, B.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Dance Minor

The Dance minor is to prepare students to be leaders in the dance profession and other realms through experiential learning, creative and scholarly research, community engagement, entrepreneurship, collaborative exchange, and diverse artistic experiences. The program aims to be inclusive and help all students develop the skills necessary to meet their individual career goals, to experience physical, mental, and emotional wellness, and to positively impact society through purposeful work and study in the dance field and beyond.

### Dance Minor Core Courses 9 credits

- DANC 1210 - Improvisation and Choreography **Credits: 3**
- DANC 3410 - Skills and Methods of Teaching Dance Technique **Credits: 3**  
or
- DANC 3420 - Skills and Methods of Teaching Improvisation and Choreography **Credits: 3**
- DANC 3440 - Dance Production **Credits: 3**

### Dance Minor Technique Courses 8 credits

Students choose from the dance technique courses listed below to attain 8 credits, according to level.

- DANC 3835 - African Drum and Dance Ensemble **Credits: 1**
- DANC 1120 - African Dance and Drumming **Credits: 2**
- DANC 1020 - Ballet Folklórico **Credits: 2**
- DANC 1130 - Ballet Level I **Credits: 2**
- DANC 2230 - Ballet II **Credits: 2**
- DANC 3330 - Ballet III **Credits: 2**
- DANC 4430 - Ballet IV **Credits: 2**

- DANC 1160 - Jazz Level I **Credits: 2**
- DANC 2260 - Jazz II **Credits: 2**
- DANC 3360 - Jazz III **Credits: 2**
- DANC 4460 - Jazz IV **Credits: 2**
- DANC 1180 - Modern Dance I **Credits: 2**
- DANC 2280 - Modern Dance II **Credits: 2**
- DANC 3380 - Modern Dance III **Credits: 2**
- DANC 4480 - Modern Dance IV **Credits: 2**
- DANC 1240 - Tap Dance I **Credits: 2**
- DANC 2240 - Tap Dance II **Credits: 2**
- DANC 1101 - Hip Hop I **Credits: 2**
- DANC 2201 - Hip Hop II **Credits: 2**
- DANC 1110 - Belly Dance I **Credits: 2**
- DANC 2210 - Belly Dance II **Credits: 2**

### Dance Minor Electives 6 credits

Students choose from the below courses to attain 6 credits of Dance Electives. No more than 3 of those credits can be completed by taking DANC 3980 or DANC 3990.

- DANC 3040 - MSU Denver Dance Ensemble **Credits: 3**
- DANC 3410 - Skills and Methods of Teaching Dance Technique **Credits: 3**
- DANC 3420 - Skills and Methods of Teaching Improvisation and Choreography **Credits: 3**
- DANC 3750 - Study Abroad: Human Performance and Sport **Credits: 3**
- DANC 3905 - Dance Repertory **Credits: 3**
- DANC 3910 - Dancing Histories in a Global Context **Credits: 3**
- DANC 3920 - Dance Entrepreneurship **Credits: 3**
- DANC 3930 - Choreography II **Credits: 3**
- DANC 3940 - Experiential Movement, Somatics and Injury Prevention for Dance Artists **Credits: 3**
- DANC 3980 - Internship for Dance **Credits: 3-9**
- DANC 3990 - Dance Field Experience **Credits: 1-3**
- DANC 4910 - Dance and Interdisciplinary Performance in the 20th Century and Beyond **Credits: 3**
- DANC 4920 - Community-Based Dance and Social Change **Credits: 3**

### Total Dance Minor Credits 23

Through a combination of the above courses and requirements students must take a minimum of 23 credits towards their Dance Minor and meet the 6 credit upper division requirement.

### Additional Requirements

**Dance Minors are required to be involved in at least 2 MSU Denver Dance Program Performances.**

### Summary of Credits Required for Dance Minor

Dance Minor Core Courses	9 credits
Dance Minor Technique Courses	8 credits
Dance Minor Electives	6 credits
<b>Total for Dance Minor</b>	<b>23 credits</b>
Must have 6 credits of upper division classes	
Required to be involved in 2 MSU Denver Dance Program Performances	

- Works effectively and productively as a member of groups.
- Demonstrates the discipline, attitude, perseverance, and focus necessary for a career in the theatre.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Theatre Major, B.A.

[Department of Theatre and Dance](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### About the Program

Theatre is "Equipment for Living." That's the philosophy behind the MSU Denver Theatre program.

A Bachelor of Arts degree in Theatre will not only prepare you to tell powerful, transformative stories, it will also impart the ability to work in teams, communicate artfully, plan large projects and think analytically - skills employers crave.

As a Theatre major, you will study the academic side of Theatre as well as receive opportunities to perform and work in campus productions, serve as a production dramaturge, become part of an MSU Denver touring company, intern at local theatres and participate in regional and national theatre competitions.

MSU Denver's Theatre program is accredited by the National Association of Schools of Theatre. The program will not only prepare you for further graduate studies, but also will provide the training necessary for careers in voice, film and theatre and other media. Many Theatre majors also translate their Theatre degrees into careers such as teaching, sales, law, business, communications and more.

### Student Outcomes

- Demonstrates a solid understanding of the business of theatre as it applies to his/her chosen concentration, especially an understanding of how to secure and maintain employment.
- Demonstrates the ability to exercise the skills of his/her chosen concentration with other theatre skill areas.
- Demonstrates the ability to think logically and critically.
- Demonstrates the ability to verbalize and/or write coherent and insightful criticism of dramatic literature and theatre production.
- Articulates the role of the arts, and theatre specifically, in diverse cultures represented in the city, state, and country.

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Core Courses for all Theatre Majors: 31 credits

- THE 2201 - The Speaking Voice in Performance **Credits: 3**
- THE 2210 - Introduction to Theatre **Credits: 3**
- THE 2220 - Acting I **Credits: 3**
- THE 2240 - Stagecraft **Credits: 3**
- THE 2270 - Production Analysis: Process and Technology **Credits: 3**
- THE 2280 - Theatre Career Development I **Credits: 3**
- THE 3211 - Theatre History, Theory, and Criticism I **Credits: 3**
- THE 3212 - Theatre History, Theory, and Criticism II **Credits: 3**
- THE 3222 - Devised Theatre **Credits: 3**
- THE 3280 - Stage Directing **Credits: 3**
- THE 4260 - Theatre: Practicum I **Credits: 1**

## Major Electives: 8 credits

All courses with a "THE" prefix, except those courses required for the major or concentration, may be selected in consultation with an approved theatre advisor within the Department of Theatre.

## Senior Experience: 3 credits

- THE 4202 - Theatre Career Development II **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Major Required Courses	31 credits
Major Electives	8 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	42-51 credits
<b>Total for the Theatre Major, B.A.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Theatre Major, B.F.A.

[Department of Theatre and Dance](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Theatre is "Equipment for Living." That's the philosophy behind the MSU Denver Theatre program.

MSU Denver's B.F.A. in Theatre degree is an intensive pre-professional program that offers two concentrations:

- Music Theatre
- Applied Theatre Technology and Design

Music Theatre provides rich opportunities for performing; Applied Theatre Technology and Design provides hands-on technical theatre experience. These experiences are provided both in class and onstage as well as through on-campus productions, internships at local theatres and with the University's own professional Kaiser Permanente Touring Company, which delivers health-oriented performances in local schools.

Taught by veteran teachers who are also theatre and design professionals, you will receive the kind of mentoring you need to make your way as an actor, theatre technician or designer, as well as discover ways to use your Theatre training in other fields. As a Theatre major, you will study the academic side of Theatre as well as receive opportunities to perform and work in campus productions, serve as a production dramaturge, become part of an MSU Denver touring company, intern at local theatres and participate in regional and national theatre competitions.

MSU Denver's Theatre program is accredited by the National Association of Schools of Theatre. The program will not only prepare you for further graduate studies, but also will provide the training necessary for careers in voice, film and theatre and other media. Many Theatre majors also translate their Theatre degrees into careers such as teaching, sales, law, business, communications and more.

## Student Outcomes

- Demonstrates a solid understanding of the business of theatre as it applies to his/her chosen concentration, especially an understanding of how to secure and maintain employment.
- Demonstrates the ability to exercise the skills of his/her chosen concentration with other theatre skill areas.
- Demonstrates the ability to think logically and critically.
- Demonstrates the ability to verbalize and/or write coherent and insightful criticism of dramatic literature and theatre production.
- Articulates the role of the arts, and theatre specifically, in diverse cultures represented in the city, state, and country.
- Works effectively and productively as a member of groups.
- Demonstrates the discipline, attitude, perseverance, and focus necessary for a career in the theatre.
- Demonstrates problem-solving skills in the application of his/her theatre skills to both laboratory experiences and public-performance opportunities.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Required Core Courses: 38 credits

- THE 2201 - The Speaking Voice in Performance **Credits: 3**
- THE 2210 - Introduction to Theatre **Credits: 3**
- THE 2220 - Acting I **Credits: 3**
- THE 2240 - Stagecraft **Credits: 3**
- THE 2242 - Stage Makeup **Credits: 3**
- THE 2270 - Production Analysis: Process and Technology **Credits: 3**
- THE 2280 - Theatre Career Development I **Credits: 3**

- THE 3211 - Theatre History, Theory, and Criticism I **Credits: 3**
- THE 3212 - Theatre History, Theory, and Criticism II **Credits: 3**
- THE 3222 - Devised Theatre **Credits: 3**
- THE 3280 - Stage Directing **Credits: 3**
- THE 3980 - Professional Internship: Theatre **Credits: 1-15**  
\*4 credits of Advanced Internship are required for BFA concentrations. Additional internship credits beyond 4 may be applied to Theatre Electives.
- THE 4260 - Theatre: Practicum I **Credits: 1**

## Music Theatre Concentration: 39 credits

### Required Courses: 36 credits

- HPL 1160 - Jazz Level I **Credits: 2**
- HPL 1240 - Tap Dance I **Credits: 2**
- MUS 0020 - Recital Attendance **Credits: 0** (two semesters)\*\*\*
- MUS 1110 - Music Theory I **Credits: 3 \***
- MUS 1120 - Music Theory Lab I **Credits: 1 \***
- MUS 1130 - Music Theory II **Credits: 3 \*\***
- MUS 1140 - Music Theory Lab II **Credits: 1 \*\***
- MUS 161B - Class Piano I **Credits: 1 \***
- MUS 162B - Class Piano II **Credits: 1 \*\* ++**(two semesters)
- MUS 1710 - Private Instruction I **Credits: 2**
- MUS 1720 - Private Instruction II **Credits: 2**
- MUS 3820 - Chorale **Credits: 1**  
or
- MUS 3821 - University Treble Choir **Credits: 1**  
or
- MUS 3822 - University Basso Choir **Credits: 1**
- THE 0010 - BFA Music Theatre Coaching **Credits: 0 \*\*\*\***
- THE 2230 - Acting II **Credits: 3**
- THE 2260 - Music Theatre History and Performance **Credits: 3**
- THE 3220 - Stage Movement **Credits: 3**
- THE 3230 - Acting III: Styles of Acting **Credits: 3**
- THE 4270 - Theatre: Practicum II **Credits: 2**
- THE 4272 - BFA Project: Music Theatre **Credits: 2**

Note: Ensembles will be assigned based on auditions.

*\*Must be taken concurrently. \*\*Must be taken concurrently. \*\*\*Students must enroll during each semester of Private Voice instruction, and complete the requirements with a "Satisfactory" grade in order to be eligible to continue to enroll in Private Voice instruction. \*\*\*\*Must be taken each semester the student is enrolled in the Music Theatre BFA Program. ++MUS 3820: Chorale or MUS 3821: Women's Choir or MUS 3822 Men's Choir are each single-credit, repeatable courses. One of these courses must be taken as a corequisite with each semester of MUS 1717 Private Musical Theatre Voice I and MUS 1727 Private Musical Theatre Voice II.*

## Concentration Elective Courses: 3 credits

All courses with a "THE" prefix, except those courses required for the major or concentration, may be selected in consultation with an approved theatre advisor within the Department of Theatre. This can include internship credits beyond the 4 credits required for the BFA core Music Theatre Concentration.

## Applied Theatre Technology and Design

Concentration: 39 credits

Required Courses: 25 credits

- ARTH 1500 - Art and Visual Literacy **Credits: 3**
- THE 0011 - BFA Applied Technology Coaching **Credits: 0 \***
- THE 2241 - Costume Construction **Credits: 3**
- THE 2243 - Graphics for Theatre **Credits: 3**
- THE 2250 - Stage Management **Credits: 3**
- THE 3241 - Computer Aided Drafting for Theatre **Credits: 3**
- THE 3250 - Introduction to Scene Design **Credits: 3**
- THE 3271 - Stage Lighting **Credits: 3**
- THE 4270 - Theatre: Practicum II **Credits: 2**
- THE 4271 - BFA Project: Applied Technology **Credits: 2**  
*\*Must be taken each semester the student is enrolled in the Applied Theatre Technology and Design BFA.*

Concentration Elective Courses: 14 credits

All courses with a "THE" prefix, except those courses required for the major or concentration, may be selected in consultation with an approved theatre advisor within the Department of Theatre. This can include internship credits beyond the 4 credits required for the BFA Applied Theatre Technology and Design concentration.

Senior Experience: 3 credits

All students must complete this course for their senior experience:

- THE 4202 - Theatre Career Development II **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Core Courses	38 credits
Concentration Selection (Music Theatre or Applied Theatre Technology and Design)	39 credits
Senior Experience	3 credits
Minor and Unrestricted Electives	4-13 credits
<b>Total for the Theatre Major, B.F.A.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Theatre Minor

Degrees offered by the Theatre Department prepare students to pursue a wide range of career options in theatre, entertainment industries, and other related fields. Each degree offers the flexibility for students to pursue a major or minor that best meets their educational, professional, and artistic goals.

Theatre Department Academic Programs

- Theatre Major, B.A.
- Theatre Major, B.F.A
- Theatre Minor

All students considering a major or minor in Theatre should consult with theatre faculty for advising.

Students who pursue a BA in Theatre must also select a minor in addition to completing all general studies and university requirements. There are no additional application requirements for this degree.

The BFA in Theatre (with concentrations in Applied Theatre Technology and Design or Music Theatre) is a professional course of study that provides specialized training in each chosen discipline. The BFA in Theatre does not require the selection of minor.

The Theatre Minor can be tailored to suit the goals of each student whether in performance or technical theatre.

### Both BFA in Theatre concentrations have additional application requirements as follows:

- The BFA in Theatre (Applied Theatre Technology and Design concentration) requires an application and interview process. All transfer students must complete a minimum of four semesters (not including summer) once accepted into the program.
- The BFA in Theatre (Music Theatre concentration) requires an application, music audition, theatre audition, and interview process. All transfer students must complete a minimum of four semesters (not including summer) once accepted into the program.

### Departmental grade requirements:

- A grade of "C-" or better is required in every course (including any cross-discipline courses) for each degree.
- Students must maintain a 2.0 GPA within each degree.
- The University the completion of 120 credits and requires an overall 2.0 GPA to graduate.
- Other departments may have differing grade requirements. For further information, contact the Theatre Department.

## Required Courses

The following courses are required for the minor:

- THE 2210 - Introduction to Theatre **Credits: 3**
- THE 2220 - Acting I **Credits: 3**
- THE 2240 - Stagecraft **Credits: 3**
- THE 2270 - Production Analysis: Process and Technology **Credits: 3**

- THE 3280 - Stage Directing **Credits: 3**
- THE 4260 - Theatre: Practicum I **Credits: 1**

**Subtotal: 16 credits**

## Notes

*COMM 1010 Public Speaking is a prerequisite to THE 2210, THE 3200, and THE 4220. This course is required for all Theatre majors and minors. COMM 1010 cannot be counted towards the 21 credits required for the major or minor; however, it may be used to fulfill General Studies requirements.*

*A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree.*

## Electives

All courses with a "THE" prefix, except those courses required for the minor, may be selected to fulfill minor elective requirements in consultation with an approved theatre advisor within the Department of Theatre. Must have 9 credits of Electives, 6 of which must be upper division.

**Subtotal: 9 credits**

**Total for Theatre Minor: 25 credits**

# School of Education

## Mission

"The School of Education at Metropolitan State University of Denver prepares people who will **Teach, Lead, and Transform.**"

Metropolitan State University of Denver's School of Education develops excellent teachers and educational leaders who engage in reflective practice and scholarly activity, and who are ethical decision makers and agents of social change.

We do this by:

- Providing intellectually rigorous, culturally relevant curriculum that fosters pedagogical expertise, cultivates critical thinking, and promotes imagination;
- Facilitating clinical placements that incorporate a diversity of perspectives and experiences;
- Creating and sustaining mutually beneficial school and community partnerships;
- Collaborating across disciplines to advance the scholarship of teaching and learning; and
- Attracting and retaining innovative faculty who model expertise within their professional communities.

## Departments

- [Department of Elementary Education and Literacy](#)
- [Department of Special Education, Early Childhood and Culturally and Linguistically Diverse Education](#)
- [Department of Secondary, K-12 and Educational Technology](#)

## Alternative Licensure Programs

- One Year General Education - ALP
- Two Year General Education - ALP
- Special Education - ALP

## School of Education Transfer policy

Students transferring coursework from another teacher education program must complete a minimum of 9 credit hours of teacher education coursework at MSU Denver, including at least one course which includes field experience, to become eligible to student teach or begin residency. Coursework to fulfill these 9 credit hours will be determined by an appropriate MSU Denver School of Education (SOE) representative. Transfer credit or credit from a previous institution cannot be used to satisfy the SOE student teaching or residency course requirements. All additional program requirements and student teaching/residency eligibility requirements must also be satisfied.

In addition to the 9 credit hours of teacher education coursework completed at MSU Denver, the student must provide a letter of

recommendation from a faculty member at the previous institution, attesting to the student's professional dispositions, performance in the field, and good academic standing.

## Department of Elementary Education and Literacy

The Department of Elementary Education and Literacy offers programs leading to initial Colorado licensure in elementary education. The licensure programs prepare teacher candidates to successfully teach our diverse elementary student population. Consequently, teacher candidates must understand the commonalities and differences in how Elementary children develop their social-emotional and cognitive thinking so they will become successful learners. It is also important that teacher candidates understand the concepts and processes that they will teach to meet district and state learning outcomes. Therefore, MSU Denver teacher candidates take classes across the content areas.

MSU Denver's Elementary licensure program is structured on the premise that future teachers learn best by practicing with feedback and reflection. As a result, our licensure program requires three field experiences prior to the final full semester of student teaching. Teacher candidates are placed in Elementary schools in the Denver metro area and are required to practice, plan and teach lessons which correspond to their concurrent methods classes. Professors of the classes observe and give constructive feedback to help the licensure candidates further develop the skills and knowledge needed to become successful teachers. Licensure candidates are monitored throughout the program to verify that expectations for licensure standards are being met.

There are multiple options for students seeking to earn an elementary teaching license at MSU Denver.

Undergraduate elementary education students have the option to major in Elementary Education or Human Development with elementary licensure.

Post-baccalaureate teacher candidates complete the licensure portion of the program only.

Our Master of Arts in Teaching allows teacher candidates to earn both their licensure and a master's degree simultaneously.

- [Elementary Education Major, B.A.](#)
- [Elementary Education Minor \(Non-Licensure\)](#)
- [Elementary Education Post-Baccalaureate Licensure Program](#)

The Department of Elementary Education and Literacy also offers a Master of Arts in Teaching: Elementary Education. Please refer to the current graduate catalog for program requirements.

## Elementary Education Major, B.A.

[Department of Elementary Education and Literacy](#)

Available Program  
Format(s): In-Person

## About the Program

The Bachelor of Arts (BA) degree in Elementary Education features best practices denoted in current literature on teacher education as facilitating development of highly effective elementary teachers. The program's clinical foundation provides teacher candidates authentic opportunities to learn and apply best practices while collaborating with some of the most effective teachers and schools in the Denver Metropolitan area. Students completing the Elementary Education Major complete coursework and participate in supervised clinical experiences. For those seeking a state teaching licensure in Elementary Education, this includes a culminating two-semester residency that supports development of the knowledge, understandings, and competencies required of successful elementary teachers in widely diverse classrooms.

## Student Outcomes

The Bachelor of Arts degree in Elementary Education is an extended major with increasingly rigorous courses that build upon foundational introductory coursework for all Elementary Education majors. In addition, each student selects a concentration to specialize their professional knowledge. The culminating clinical experience is a two-semester teacher residency program completed in cohort-based schools within our partner districts in the Denver metropolitan area. Teacher candidates pursuing licensure graduate with appropriate preparation for initial licensure in Elementary Education in Colorado. Students within the Elementary Education Major have an option to select a non-licensure pathway with alternative coursework in place of the final residency coursework. Please visit the School of Education (SOE) website for information on admission to this program.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of at least 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

- All candidates for a BA in Elementary Education must satisfy General Studies, Multicultural, Global Diversity, and all Elementary Education program requirements.
- Please note: The majority of field experience hours and all clinical experience hours occur during the elementary school day in university-designated classrooms supervised by licensed teachers.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - We recommend the following courses for this category: MTH 1610 - Integrated Mathematics I Note: MTH 1610 also satisfies a requirement in the major.
- Arts and Humanities (6 credits)
  - We recommend the following courses for this category: ARTE 2060 - The Arts and Creative Thinking and ENG 2460 - Introduction to Children's Literature
- Historical (3 credits)
  - We recommend one of the following courses for this category: HIS 1210 - American History to 1865 or HIS 1220 - American History since 1865
- Natural and Physical Sciences (6 credits)
  - We recommend the following courses for this category: SCI 2600 - Integrated Biology and Earth Science and SCI 2610 - Integrated Physical and Chemical Sciences Note: SCI 2600 and SCI 2610 also satisfy requirements in the major.
- Social and Behavioral Sciences (6 credits)
  - We recommend the following courses for this category: GEG 1000 - World Regional Geography and PSY 1800 - Developmental Educational Psychology Note: GEG 1000 also satisfies University Global Diversity course requirement
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - We recommend the following course: EDU 1111 - Education within Diverse Communities Note: EDU 1111 also satisfies a requirement in the major.

## Core Courses Required for the Major: 62 credits

All Elementary Education Majors, whether licensure or non-licensure, complete the following core coursework. Registering for 3000-level methods courses and clinical fields requires application to the School of Education. Up to 9 credits indicated below can also be used to fulfill General Studies requirements.

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- EDU 1111 - Education within Diverse Communities **Credits: 3** (Note: EDU 1111 also satisfies the University multicultural requirement.)
- EDU 2111 - Becoming an Elementary Teacher **Credits: 3**
- EDU 3222 - Developing Differentiated Learning Environments **Credits: 3**
- EDU 3444 - Instructional and Assessment Practices in Differentiated Classrooms **Credits: 3**
- EDU 3445 - Field Experience: Assessment Practices in Differentiated Classrooms **Credits: 1**
- EDU 3550 - Teaching Elementary School Science and Health **Credits: 3**
- EDU 3665 - Field Experience: Teaching Science, Health and Mathematics **Credits: 1**
- EDU 3666 - Teaching Elementary School Mathematics **Credits: 3**
- EDU 4011 - Teaching Elementary School Social Studies **Credits: 3**
- MTH 1610 - Integrated Mathematics I **Credits: 3** (Note: MTH 1610 also satisfies a University General Studies requirement.)
- MTH 2620 - Integrated Mathematics II **Credits: 3**
- MTL 3600 - Mathematics of the Elementary Curriculum **Credits: 3**
- PETE 2130 - Health and Physical Education for Elementary Teachers **Credits: 2**
- RDG 3111 - Emergent Literacy K-3 **Credits: 3**
- RDG 3222 - Teaching Elementary School Writing **Credits: 3**
- RDG 3333 - Intermediate Literacy 4-6 **Credits: 3**
- RDG 3335 - Field Experience: K-6 Literacy **Credits: 1**

- SCI 2600 - Integrated Biology and Earth Science **Credits: 3** (Note: SCI 2600 also satisfies a University General Studies requirement.)
- SCI 2610 - Integrated Physical and Chemical Sciences **Credits: 3** (Note: SCI 2610 also satisfies a University General Studies requirement.)
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

Students in the Elementary Education Major may differentiate their studies by choosing one of two pathways: Licensure (22 credits leading to a state teaching license) or Non-Licensure (18 credits).

## Licensure Pathway: 22 credits

Teacher candidates in the Elementary Education Major, who seek a state teaching license, complete a two-semester, culminating clinical experience: Residency I (3 days per week) and Residency II (4 days per week). One co-requisite course is paired with each residency semester (RDG 4444 and EDU 4222).

- EDU 4222 - Designing Instruction For All Learners **Credits: 3**
- RDG 4444 - Accountability in Whole Class Literacy Assessment **Credits: 3**

All teacher candidates (2018 catalog year or later) within the licensure pathway complete 7 credits of Residency I. For most teacher candidates, this is EDU 4115. However, teacher candidates earning an endorsement in Culturally and Linguistically Diverse (CLD) Education or as a CLD Bilingual Education Specialist, complete EDU 4116 CLD Residency I instead of EDU 4115 Residency I. All state initial licensure requirements must be met in order to qualify for the additional CLD or CLD BES endorsement.

- EDU 4115 - Residency I **Credits: 3-7**  
or
- EDU 4116 - CLD Residency I **Credits: 3-7**

All teacher candidates seeking initial teacher licensure complete 9 credits of Residency II. Teacher candidates, who are completing the requirements for an additional endorsement in CLD or CLD BES, complete EDU 4226 CLD Residency II instead of EDU 4225 Residency II. All state licensure requirements must be met in order to qualify for the additional state CLD or CLD BES endorsement.

- EDU 4225 - Residency II **Credits: 9 \***  
or
- EDU 4226 - CLD Residency II **Credits: 9 \***

\*Either EDU 4225 or EDU 4226 can fulfill the Senior Experience requirement.

## Non-Licensure Pathway: 18 credits

Students majoring in Elementary Education may differentiate their plan of study by choosing 18 credits of coursework that supports a professional pathway related to educational studies. Non-licensure pathway students are encouraged to complete EDS 4010 Action Research within Communities of Practice, as a means to bridge their differentiated studies to their future professional communities through the high leverage practice of engaging in undergraduate research.

- EDS 4010 - Action Research within Communities of Practice **Credits: 3** (fulfills the Senior Experience requirement)
- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 2850 - Psychology of Sexuality **Credits: 3**
- PSY 3000 - Theories of Personality **Credits: 3**
- PSY 3030 - Multicultural Psychology **Credits: 3**
- PSY 3050 - Psychology of Gender **Credits: 3**
- PSY 3070 - Psychology of Sexual Orientation **Credits: 3**
- PSY 3170 - Social Justice: Self and Citizenship: A Service Learning Course **Credits: 3**
- PSY 3370 - Undergraduate Research Assistant **Credits: 3**
- PSY 3390 - Undergraduate Teaching Assistant Training **Credits: 3**
- PSY 3410 - Health Psychology **Credits: 3**
- PSY 3450 - Organizational Psychology **Credits: 3**
- PSY 3460 - Psychology of Play **Credits: 3**
- PSY 3700 - Psychology of Group Prejudice **Credits: 3**
- PSY 3920 - Gender Politics of Health **Credits: 3**
- PSY 4100 - Introduction to Clinical Counseling Psychology **Credits: 3**

## Concentration Choices: 15 credits

Students further differentiate their plan of study through selecting one of the following 15-credit concentrations. While students are only required to complete one concentration, they may choose to declare an additional concentration.

### Applied Developmental Psychology Concentration

- PSY 1001 - Introductory Psychology **Credits: 3**
- PSY 3250 - Child Psychology **Credits: 3**
- PSY 3340 - Cognitive Development and Learning **Credits: 3**
- PSY 3350 - Psychology of Social Development **Credits: 3**

#### Choose one elective from the following:

- PSY 2210 - Psychology of Human Development **Credits: 3**
- PSY 3240 - Infancy **Credits: 3**
- PSY 3260 - Psychology of Adolescence **Credits: 3**
- PSY 3400 - Child Psychopathology **Credits: 3**

### Chicana/o Studies Concentration

- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3**
- CHS 3300 - Education of Chicano Children **Credits: 3**
- CHS 3800 - Topics in Chicano Studies **Credits: 3**

#### Choose one elective from the following:

- CHS 3100 - Social Justice and Activism in the Chicana/o Community **Credits: 3**
- CHS 3460 - Chicana Feminisms **Credits: 3**

### Culturally and Linguistically Diverse Concentration

Students completing the CLD concentration as part of the licensure pathway can apply for an additional state CLD teaching endorsement upon completing all state initial licensure requirements. Students completing the CLD concentration as part of the non-licensure pathway would not qualify for a state endorsement.

- ANT 2330 - Cross-Cultural Communication **Credits: 3**  
or
- COMM 3000 - Diversity and Communication in the U.S. **Credits: 3**
- CLD 2890 - Second Language Acquisition: K-12 Educational Implications **Credits: 3**
- CLD 3290 - Literacy Development for Culturally and Linguistically Diverse Students K-12 **Credits: 3**
- CLD 3310 - Integrated Methods of Teaching English as a Second Language **Credits: 3**

#### Choose one elective from the following:

- CHS 3300 - Education of Chicano Children **Credits: 3**
- CLD 3940 - Spanish Bilingual Language and Literacy Development **Credits: 3**  
Note: CLD 3940 Bilingual Language and Literacy is taught mainly in Spanish. This course is one of the courses required for the endorsement in Culturally and Linguistically Diverse (CLD) Bilingual Education Specialist K-12 in Spanish and English.
- LING 3011 - Analyzing English **Credits: 3**
- Any level language classes whether transfer, prior learning, or those taken at MSU Denver will be accepted as fulfilling this requirement. MSU Denver course prefixes include ASL, CHI, FRE, GER, ITA, JPS, MDL, SPA. Prior learning includes Advanced Placement (AP), College Level Examination Program (CLEP), or International Baccalaureate (IB) credit. General Studies status is not required.

### Disciplinary Knowledge Concentration

#### Choose at least one elective of the following courses:

- ECO 2010 - Principles of Macroeconomics **Credits: 3**  
or
- ECO 2020 - Principles of Microeconomics **Credits: 3**

- HIS 1030 - World History to 1500 **Credits:** 3
- HIS 1040 - World History since 1500 **Credits:** 3
- HIS 3425 - Colorado and the Nation **Credits:** 3
- HIS 3430 - American Revolution and Early National Period, 1763-1848 **Credits:** 3
- PSC 1010 - American National Government **Credits:** 3
- Choose at least one 3-credit elective in the Natural and Physical Sciences (prefixes: BIO, PHY, GEL, ENV, MTR, GEG, CHE).
- Choose a remaining combination of courses among those listed above in order to total 15 credits in the concentration.
- Note: In addition to at least one of the Social Science courses listed above and at least one of the Natural and Physical Science courses, students select additional electives from the options listed above for either Social Sciences or Natural and Physical Sciences so that their overall total for the concentration is at least 15 credits. These courses do not need General Studies designation.

## Mathematics Concentration

- MTL 3750 - Number and Algebra in the K-8 Curriculum **Credits:** 3
  - MTL 3760 - Geometry and Statistics in the K-8 Curriculum **Credits:** 3
- Choose one of the following three options in order to meet the Algebra requirement:**
- MTH 1108 - College Algebra Stretch, Part I **Credits:** 4 and
  - MTH 1109 - College Algebra Stretch, Part II **Credits:** 4  
Note: MTH 1108 and MTH 1109 counts as two of the five courses for the concentration.  
or
  - MTH 1110 - College Algebra for Calculus **Credits:** 4  
or
  - MTH 1112 - College Algebra Through Modeling **Credits:** 4
- Choose among the following mathematics or mathematics education elective courses for a total of 5 credits.**
- MTH 1210 - Introduction to Statistics **Credits:** 4
  - MTL 4630 - Teaching Secondary Mathematics **Credits:** 3
  - MTL 3850 - STEM Teaching and Learning **Credits:** 2
  - MTL 3858 - STEM Teaching and Learning Practicum **Credits:** 1
  - Or any mathematics course that has MTH 1110 as a prerequisite.  
Notes:
  - MTL 3630 is recommended for teacher candidates who intend to add a middle school mathematics endorsement to their elementary license. For teacher candidates in the

Elementary Education Mathematics concentration, the course instructor will waive the co-requisite field.

- In order to count MTL 3850 towards the concentration, students must also participate in the STEM Learning Assistant program.

## Senior Experience: 3-9 credits

For students completing the Licensure Pathway, the following will fulfill the Senior Experience requirement:

- EDU 4225 - Residency II **Credits:** 9  
or
- EDU 4226 - CLD Residency II **Credits:** 9

For students completing the Non-Licensure Pathway, the following course will fulfill the Senior Experience requirement:

- EDS 4010 - Action Research within Communities of Practice **Credits:** 3

Please note: Senior Experience course credit is counted elsewhere in the major

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Courses	62 credits
Licensure Pathway	22 credits
Non-Licensure Pathway	18 credits
Selected Concentration	15 credits
Senior Experience	counted elsewhere in major
Unrestricted Electives	0-10 credits
<b>Total for the Elementary Education Major, B.A.</b>	<b>Minimum of 120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Elementary Education Minor (Non-Licensure)

The Elementary Education Minor (Non-Licensure) serves individuals who are interested in working with elementary aged children (ages 5-12) outside the K-6 classroom (for example, recreation fields, summer camps, travel programs, after-school enrichment programs, day care). The Elementary Education Minor does not meet licensure requirements. A grade of C- or better is required in these courses.

## Required Courses:

- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- EDU 1111 - Education within Diverse Communities **Credits: 3**
- EDU 2111 - Becoming an Elementary Teacher **Credits: 3**
- EDU 3222 - Developing Differentiated Learning Environments **Credits: 3**
- PETE 2130 - Health and Physical Education for Elementary Teachers **Credits: 2**
- RDG 3111 - Emergent Literacy K-3 **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

Total Required Hours: 20 credits

## Elementary Education Post-Baccalaureate Licensure Program

Post-baccalaureate elementary licensure candidates should consult with an advisor in the Department of Elementary Education & Literacy prior to registering for any courses. A grade of C- or better is required of all courses with letter grades. Please visit the School of Education (SOE) website for information on admission to this program.

### Required Content Courses

These are required content knowledge although not prerequisite to the other coursework.

- MTH 1610 - Integrated Mathematics I **Credits: 3**
- MTH 2620 - Integrated Mathematics II **Credits: 3**
- MTL 3600 - Mathematics of the Elementary Curriculum **Credits: 3**

Required Content Classes Total: 9 credits

These courses are required but can be taken simultaneously with the required licensure courses.

### Recommended Content Courses

The following courses are highly recommended if the earned bachelor's degree does not include comparable coursework.

- EDU 2111 - Becoming an Elementary Teacher **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- PSY 1800 - Developmental Educational Psychology **Credits: 3**

### Required Licensure Courses

- RDG 3111 - Emergent Literacy K-3 **Credits: 3**

- EDU 3444 - Instructional and Assessment Practices in Differentiated Classrooms **Credits: 3**
- EDU 3445 - Field Experience: Assessment Practices in Differentiated Classrooms **Credits: 1**
- RDG 3222 - Teaching Elementary School Writing **Credits: 3**
- RDG 3333 - Intermediate Literacy 4-6 **Credits: 3**
- RDG 3335 - Field Experience: K-6 Literacy **Credits: 1**
- EDU 3550 - Teaching Elementary School Science and Health **Credits: 3**
- EDU 3666 - Teaching Elementary School Mathematics **Credits: 3**
- EDU 3665 - Field Experience: Teaching Science, Health and Mathematics **Credits: 1**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- EDU 4011 - Teaching Elementary School Social Studies **Credits: 3**
- EDU 4115 - Residency I **Credits: 3-7**  
OR
- EDU 4116 - CLD Residency I **Credits: 3-7**
- EDU 4222 - Designing Instruction For All Learners **Credits: 3**
- EDU 4225 - Residency II **Credits: 9**  
OR
- EDU 4226 - CLD Residency II **Credits: 9**
- RDG 4444 - Accountability in Whole Class Literacy Assessment **Credits: 3**

**Total for Licensure Program: 61 credits**

**The total required licensure courses combined with required content courses equals 70 credits.**

Students who are simultaneously completing coursework towards an endorsement in Culturally and Linguistically Diverse (CLD) education must enroll in the CLD versions of Residency: EDU 4116 CLD Residency I and EDU 4226 CLD Residency II. Overall credit requirements do not change although additional learning outcomes are expected of students relative to serving CLD children.

All licensure students are required to complete 7 credits of Residency I (EDU 4115 or EDU 4116) and 9 credits of Residency II (EDU 4225 or EDU 4226).

## Department of Secondary, K-12 and Educational Technology

The Department of Secondary, K-12, and Educational Technology offers undergraduate and post-baccalaureate programs leading to initial Colorado licensure in the following content areas:

- Grades 7-12: English, Science, Mathematics, and Social Studies

- Grades K-12: Art, Music, Physical Education, and Foreign Languages

To be eligible for licensure, candidates must successfully complete all academic and field experience requirements, pass a state-approved licensure exam, and complete student teaching. With careful planning and advisement, students are also encouraged to pursue an added endorsement in Culturally, Linguistically, and Diverse (CLD) education.

Our Secondary and K-12 licensure programs reflect six philosophical approaches underlying a strong commitment to preparing caring and excellent teachers and educational leaders who are informed decision-makers for the diverse contexts of classrooms, schools, and communities. These strands include: 1) Teachers as agents of change; 2) Culturally responsive teaching; 3) Backward design; 4) Project-based learning; 5) Performance Assessment; and 6) Data-informed assessment.

In addition to our licensure programs, we offer certificate programs for anybody interested in expanding their knowledge of instructional technology.

## Undergraduate Programs

- [K-12 Education Licensure Programs](#)
- [Secondary Education Teacher Licensure Programs](#)
- [Instructional Design and Technology Minor](#)
- [Secondary Education Minor \(Non-Licensure\)](#)

## Post-baccalaureate Programs

- [Post-Baccalaureate K-12 Education Licensure Programs](#)
- [Post-Baccalaureate Secondary Education Teacher Licensure Programs](#)

## Certificate Programs

- [Instructional Technology Certificate](#)
- [Instructional Technology Post-Baccalaureate Certificate](#)

## Instructional Design and Technology Minor

The Instructional Design and Technology Minor focuses on the design, creation, utilization, and evaluation of dynamic learning objects within the context of a variety of real world learning experiences. The field of instructional technology continues to expand with an increasing need for highly-trained professionals with credentials in design, implementation, and evaluation of multimedia learning materials and instructional design theories. Providing a comprehensive, interdisciplinary experience, this minor program combines the fields of education, cognitive science, instructional design, information technology, and social media management. Completion of this minor program will lead students to becoming versatile designers who are able to:

- Incorporate highly-effective design practices and theories in the development of curriculum, training and instruction

- Apply instructional design practices and technologies in real world environments to solve social, cultural, and economic challenges
- Facilitate organizational change and strategically recommend technology adoption
- Utilize instructional tools and practices to increase learner-related performance through the employment of emerging instructional technologies

- Develop and assess effective technology-supported learning assets and environments
- Perform as a liaison and expert to empower others in the effective use of instructional design tools and practices
- Evaluate, critique, and recommend appropriate technologies to enhance teaching and learning

Working collaboratively with discipline and subject matter experts, graduates with this minor may continue to obtain an advanced degree in the field and/or provide instructional design expertise in a number of exciting environments including:

- K-12 and postsecondary classroom and online instruction
- Instructional media production
- Corporate training
- Health institutions and training
- Public and cultural institutions
- Publishing companies
- Non-profit organizations
- The military

This minor program is open to all MSU Denver undergraduate students. To successfully complete the minor program, a minimum grade of "C-" in all courses and an overall GPA of 2.75 of the minor are required.

## Required Courses

This Minor program requires the following six courses, including one capstone course:

- EDT 2050 - Instructional Design Thinking **Credits: 3**
- EDT 2060 - Digital Life and Learning **Credits: 3**
- EDT 3050 - Games, Applications, and Instructional Interaction **Credits: 3**
- EDT 3060 - Instructional Multimedia **Credits: 3**
- EDT 4050 - Emerging Issues and Innovation **Credits: 3**
- EDT 4060 - Capstone for Instructional Design and Technology **Credits: 3**

**Program Total: 18 credits**

## Instructional Technology Certificate

The Instructional Technology Undergraduate Certificate Program focuses on the design, creation, utilization, and evaluation of dynamic learning objects within the context of a variety of real world learning experiences. The field of instructional technology continues to expand with an increasing need for highly-trained professionals with credentials in design, implementation, and evaluation of multimedia learning materials and instructional design theories. Providing a

comprehensive, interdisciplinary experience, this certificate program combines the fields of education, cognitive science, instructional design, information technology, and social media management. Graduates of this certificate program are versatile designers who are able to:

- Incorporate highly-effective design practices and theories in the development of curriculum, training and instruction
- Apply instructional design practices and technologies in real world environments to solve social, cultural, and economic challenges
- Facilitate organizational change and strategically recommend technology adoption
- Utilize instructional tools and practices to increase learner-related performance through the employment of emerging instructional technologies
- Develop and assess effective technology-supported learning assets and environments
- Perform as a liaison and expert to empower others in the effective use of instructional design tools and practices
- Evaluate, critique, and recommend appropriate technologies to enhance teaching and learning

Working collaboratively with discipline and subject matter experts, certificate holders in this field provide instructional design expertise in a number of exciting environments including:

- K-12 and postsecondary classroom and online instruction
- Instructional media production
- Corporate training
- Health institutions and training
- Public and cultural institutions
- Publishing companies
- Non-profit organizations
- The military

This certificate program is open to all undergraduate students who have not already completed a bachelor's degree. To complete the certificate program, a minimum grade of "C" in all certificate courses and an overall certificate GPA of 2.75 are required.

## Required Courses

- EDT 2050 - Instructional Design Thinking **Credits: 3**
- EDT 2060 - Digital Life and Learning **Credits: 3**
- EDT 3050 - Games, Applications, and Instructional Interaction **Credits: 3**
- EDT 3060 - Instructional Multimedia **Credits: 3**
- EDT 4050 - Emerging Issues and Innovation **Credits: 3**

**Program Total: 15 Credits**

## Instructional Technology Post-Baccalaureate Certificate

The Instructional Technology post-baccalaureate certificate program focuses on the design, creation, utilization, and evaluation of dynamic learning objects within the context of a variety of real world learning experiences. The field of instructional technology continues to expand with an increasing need for highly-trained professionals with

credentials in design, implementation, and evaluation of multimedia learning materials and instructional design theories. Providing a comprehensive, interdisciplinary experience, this certificate program combines the fields of education, cognitive science, instructional design, information technology, and social media management. Students are required to complete an experiential capstone course at the end of the program. Graduates of this certificate program are versatile designers who are able to:

- Incorporate highly-effective design practices and theories in the development of curriculum, training and instruction
- Apply instructional design practices and technologies in real world environments to solve social, cultural, and economic challenges
- Facilitate organizational change and strategically recommend technology adoption
- Utilize instructional tools and practices to increase learner-related performance through the employment of emerging instructional technologies
- Develop and assess effective technology-supported learning assets and environments
- Perform as a liaison and expert to empower others in the effective use of instructional design tools and practices
- Evaluate, critique, and recommend appropriate technologies to enhance teaching and learning

Working collaboratively with discipline and subject matter experts, certificate holders in this field provide instructional design expertise in a number of exciting environments including:

- K-12 and postsecondary classroom and online instruction
- Instructional media production
- Corporate training
- Health institutions and training
- Public and cultural institutions
- Publishing companies
- Non-profit organizations
- The military

Only students with a conferred bachelor's degree from an accredited institution are eligible to earn the certificate. To complete the certificate program, a minimum grade of "C" in all certificate courses and an overall certificate GPA of 2.75 are required.

## Required Courses

- EDT 2050 - Instructional Design Thinking **Credits: 3**
- EDT 2060 - Digital Life and Learning **Credits: 3**
- EDT 3050 - Games, Applications, and Instructional Interaction **Credits: 3**
- EDT 3060 - Instructional Multimedia **Credits: 3**
- EDT 4050 - Emerging Issues and Innovation **Credits: 3**

### Capstone/Internship

- EDT 4090 - Instructional Prototyping **Credits: 3**

**Program Total: 18 Credits**

## K-12 Education Licensure Programs

The K-12 Education Licensure Programs prepare candidates to teach content-area courses in grades K-12. Through the sequence of courses and field experiences, the candidate satisfies all of Colorado's performance-based standards for licensure in K-12 Education. Degree seeking K-12 Education Licensure candidates must choose from one of the following programs to complete earn recommendation for licensure in K-12 Education.

Candidates seeking teacher licensure must gain admission to the Secondary Education Teacher Licensure Program. You can learn about the application process by visiting the Student Services Office within the School of Education. Each Major program might have a different minimum grade.

- K-12 Art Licensure
- K-12 World Languages Licensure
- K-12 Music Licensure
- K-12 Physical Education Licensure

## K-12 Art Licensure

Students pursuing recommendation for K-12 art licensure should complete the Bachelor of Fine Arts in Art Education. Please refer to the Art Education Major, B.F.A. for program requirements.

## K-12 World Languages Licensure

Degree-seeking candidates who wish to obtain Colorado licensure for K-12 World Languages must earn a Bachelor of Arts (B.A.) degree in Modern Languages. Candidates must complete 42 credit hours in their language concentration (French or Spanish) or an extended major that requires an additional 18 credit hours at the 2000-level or above in a different secondary language for a total of 60 credit hours. The curriculum focuses on the Colorado Academic Standards for Foreign Languages and prepares licensure candidates to pass the required licensure exams. Students completing the K-12 licensure coursework are not required to have a minor.

The requirements of each major are designed to ensure licensure programs meet Colorado Licensure Standards to prepare candidates to pass required licensure content examinations and teach the Colorado Academic Standards within their discipline.

**\*All World Language licensure candidates must consult two advisors, one in the Secondary/K-12 education department in the School of Education and one in their major department (licensure content area).**

Candidates seeking teacher licensure must gain admission to the Secondary Education/K-12 Teacher Education Program. You can learn about the application process by visiting the Students Services Office located within the School of Education.

## Post-Baccalaureate Licensure Candidates

Post-baccalaureate licensure candidates may need to fulfill some general studies requirements and complete additional content area courses that are required for licensure. Students interested in the Post-

Baccalaureate program should meet an academic advisor located in the Students Services Office within the School of Education as well as an academic advisor in their licensure content area. This advisor will review prior transcripts to ensure required content coursework for licensure is complete.

## General Studies Course Requirements

Content area knowledge for secondary education is provided by the student's major, licensure coursework, any additional content courses required for licensure, and by the specific general studies requirements listed below. The footnotes contain information about the exceptions. A student's major program may have some specific General Studies requirements/restrictions that must also be met to complete the baccalaureate degree.

**\*Students should consult with both their major and School of Education advisors about specific General Studies requirements as some of these requirements can be fulfilled by licensure coursework as well as the additional content courses required for licensure.**

## General Studies Required Courses:

- ENG 1010 - Composing Arguments **Credits:** 3
- ENG 1020 - Research and Argument Writing **Credits:** 3
- MTH 1610 - Integrated Mathematics I **Credits:** 3 \*
- COMM 1010 - Presentational Speaking **Credits:** 3
- General Studies Arts and Humanities (6 credits)
- General Studies Historical (3 credits)
- General Studies Natural and Physical Sciences (6 credits)
- General Studies Social and Behavioral Sciences I and II (met in licensure sequence by EDS 3130 and EDS 3150 for some majors)

**General Studies Total: 27-33**

Note:

*\*Included in General Studies courses, students must select one that satisfies the Global Diversity requirement.*

## Modern Languages Major with K-12 Foreign Language Licensure

## Foundation and Methods

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- EDU 3222 - Developing Differentiated Learning Environments **Credits:** 3 \*\*

- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*
  - EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*
  - RDG 3280 - Teaching Content Literacy Skills **Credits:** 3 \*\*
  - MDL 4960 - Teaching Foreign Languages in K-12 **Credits:** 3
  - MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits:** 1
  - EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12 \*\*
- \* Requires at least provisional admission to the School of Education*
- \*\*Requires formal admission to the School of Education*

## Modern Languages Major

**For information on specific major requirements for Modern Language majors pursuing secondary licensure please go here: Modern Languages Major, B.A. with K-12 World Languages Teacher Licensure Concentration**

## K-12 Music Licensure

The K-12 Licensure Program prepares candidates to teach content-area courses in grades K-12. Through the sequence of courses and field experiences, the candidate satisfies all of Colorado's performance-based standards for licensure in K-12 Education.

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. The application form for the program must be completed by attending an Application Meeting during the semester prior to the first semester of education course work. Application Meetings are scheduled by the Teacher Application Center (WC 136). Formal admission must be obtained BEFORE Methods coursework can be taken and provisional admission must be obtained before any field experience placement will be made.

Music Education licensure candidates must consult an advisor in their selected major and one in education.

For more information on this program, see the Bachelor of Music Education section of the catalog.

## K-12 Physical Education Licensure

The core curriculum is designed to prepare candidates to pass the K-12 Physical Education Content Exam and to teach to the Colorado Model Content Standards for K-12 Physical Education. **Licensure candidates need to meet with a K-12 Physical Education advisor.**

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. Formal admission must be obtained BEFORE Methods coursework can be taken and provisional admission must be obtained before any field experience placement will be made.

For more information on this program, see the K-12 Physical Education Major, B.S. section of the catalog.

## Post-Baccalaureate K-12 Education Licensure Programs

Post-baccalaureate licensure candidates may need to fulfill some general studies requirements and complete additional content area courses that are required for licensure. Students interested in the Post-Baccalaureate programs should meet with a professional advisor located in the Student Services Office within the School of Education as well as a professional advisor in their licensure content area\*. This advisor will review prior transcripts to ensure required content coursework for licensure is complete.

*\* Candidates interested in Art Education should meet directly with an Art Education advisor in the Art Department, and candidates interested in Music Education should meet directly with a Music Education advisor in the Music Department.*

Visit the following pages for details on each post-baccalaureate K-12 teacher licensure program:

- K-12 Art Licensure: Post-Baccalaureate Program
- K-12 World Languages Teacher Licensure: Post-Baccalaureate Program
- K-12 Music Licensure: Post-Baccalaureate Program
- K-12 Physical Education Licensure: Post-Baccalaureate Program

## K-12 Art Licensure: Post-Baccalaureate Program

Admission requirements for post-baccalaureate candidates seeking K-12 licensure include evidence of having a conferred bachelor's degree in the licensure subject area, and meeting the criteria for formal admission. Upon application to the Teacher Education Program, an official transcript from the accredited colleges where the candidate attended, including the one granting the baccalaureate degree must be brought to the Teacher Application Center. The appropriate content area advisors will review the transcript for completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and should take the licensure content examination as soon as possible.

Coursework in teacher licensure is available through the Art Department. An existing BF A in a studio area is required. Students interested in the post-bac program that have a BA in a studio area will be required to submit a portfolio for review for entrance into the program. Students that are not accepted to the licensure program after the portfolio review can reapply for review the following semester. Students provisionally accepted may need to complete additional content area coursework to meet licensure requirements. Students must also achieve satisfactory scores on the state licensure examination. See your advisor for more information.

## Required Courses

- ARTE 3601 - Introduction to Art Education: History and Philosophy **Credits:** 3
- ARTE 3605 - Creating an Inclusive Art Classroom: Curriculum and Instruction **Credits:** 3
- ARTE 4130 - Elementary Art Education: Curriculum and Instruction **Credits:** 3
- ARTE 4140 - Field Experience: Art Education Elementary **Credits:** 1
- ARTE 4230 - Secondary Art Education: Curriculum and Instruction **Credits:** 3
- ARTE 4240 - Field Experience: Art Education Secondary **Credits:** 1
- ARTE 4701 - Student Teaching and Seminar: Art Education K-12 **Credits:** 12
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3

**Total: 40 credits**

## Technology Based Studio Course

Students must complete one technology based studio course if not taken as part of previous degree. Technology based studio course work includes photography, printmaking or communication design.

## Possible Additional Coursework

If any of the following courses can not be identified on transcripts, they will need to be taken as part of the licensure requirements.

- ART 1101 - Studio Foundations: 2D **Credits:** 3
- ART 1141 - Studio Foundations: Drawing **Credits:** 3
- ART 1501 - Studio Foundations: 3D **Credits:** 3
- ARTH 1600 - World Art I: Art Prior to 1400 **Credits:** 3
- ARTH 1700 - World Art II: Art 1400-1900 **Credits:** 3
- ARTH 2080 - Art of the 20th and 21st Centuries **Credits:** 3

## K-12 World Languages Teacher Licensure: Post-Baccalaureate Program

Admission requirements for post-baccalaureate students seeking licensure include evidence of having at least a conferred bachelor's degree from a regionally accredited university, as well as the stated admission criteria. Students should see an advisor in the Modern Languages department and the secondary/K-12 education department for detailed information on post-baccalaureate licensure in World Languages. Faculty will review the transcript for completed

coursework appropriate for the endorsement being sought. It may be necessary for a post-baccalaureate candidate to complete specified courses in the content area in addition to the teacher licensure coursework.

## K-12 World Languages Teacher Licensure: Post-Baccalaureate

Please meet with a faculty advisor in the Modern Languages department for the detailed content coursework. The coursework basically includes the following categories:

- Language/Grammar/Composition/Linguistics/Conversation
- Phonetics
- Culture/Civilization
- Literature

## Licensure Core for K-12 World Languages

### Foundations

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- MTH 1610 - Integrated Mathematics I **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3

### Methods

- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12
- EDU 3444 - Instructional and Assessment Practices in Differentiated Classrooms **Credits:** 3
- EDU 3445 - Field Experience: Assessment Practices in Differentiated Classrooms **Credits:** 1
- MDL 4960 - Teaching Foreign Languages in K-12 **Credits:** 3
- MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits:** 1

## K-12 Music Licensure: Post-Baccalaureate Program

Admission requirements for post-baccalaureate candidates seeking K-12 licensure include evidence of having a conferred Bachelor's degree in the licensure subject area, and meeting the criteria for formal admission. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program.

Post-baccalaureate students seeking K-12 licensure in music education should meet with an advisor in the Music Department at your earliest opportunity to determine your requirements.

## **K-12 Physical Education Licensure: Post-Baccalaureate Program**

Admission requirements for post-baccalaureate students seeking K-12 Physical Education licensure include evidence of having a conferred Bachelor's degree and meeting the criteria for formal admission to the K-12 Physical Education Post-Baccalaureate Licensure Program.

The K-12 Physical Education advisors will review the transcript for completed coursework appropriate for the licensure being sought. Coursework meeting standards for K-12 Physical Education is available through the Secondary, K-12, and Educational Technology Department website. The coursework prepares the candidate to pass the state required licensure exam for K-12 Physical Education and to utilize the current state approved standards for teaching.

The following courses are required and must be completed with a grade of "C-" or better.

Candidates for the K-12 Physical Education Licensure: Post-Baccalaureate Program can complete a minimal number of additional courses to earn a second bachelor's degree in Physical Education. Please see the K-12 Physical Education Major, B.S. listing and speak with a K-12 Physical Education advisor for details.

## **Physical Education and Health Courses**

- PETE 3000 - School Health Education **Credits: 3**
- HPS 4500 - Motor Learning and Development **Credits: 3**
- PETE 1601 - Introduction to Teaching Physical Education **Credits: 3**
- PETE 1665 - Methods of Teaching Outdoor Education **Credits: 3**
- PETE 1670 - Curricular Aspects of Elementary Physical Education **Credits: 3**
- PETE 1680 - Curricular Aspects of Secondary Physical Education **Credits: 3**
- PETE 2010 - Methods of Teaching Team Activities **Credits: 3**
- PETE 2030 - Teaching Weight Training and Fitness Education **Credits: 3**
  
- PETE 2040 - Methods of Teaching Individual/Dual Activities, Level I **Credits: 3**

or

- PETE 2090 - Methods of Teaching Individual/Dual Activities, Level II **Credits: 3**
  
- PETE 3010 - Clinical Experience in School Health Education **Credits: 2**
- PETE 3200 - Movement Science for Teacher Education **Credits: 4**
- PETE 3400 - Methods of Teaching Secondary Physical Education **Credits: 3**
- PETE 3410 - Clinical Experience in Secondary Physical Education **Credits: 2**
- PETE 3460 - Health and Physical Education Assessment **Credits: 3**
- PETE 3500 - Methods of Teaching Elementary Physical Education **Credits: 3**
- PETE 3510 - Clinical Experience in Elementary Physical Education **Credits: 2**
- PETE 3800 - Risk Prevention, Assessment, and Intervention for Teacher Education **Credits: 3**
- PETE 4620 - Methods of Teaching Adapted Physical Education **Credits: 3**

*Pre-requisites and Co-requisites: Please see individual courses for pre- and co-requisites*

**Subtotal: Minimum of 52 credit hours**

## **Licensure Sequence**

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- CLD 3310 - Integrated Methods of Teaching English as a Second Language **Credits: 3**
- or
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- EDU 4190 - Elementary Student Teaching and Seminar: K-6 **Credits: 6,12**
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

*Pre-requisites and Co-requisites: Please see individual courses for pre- and co-requisites*

**Subtotal: 32 credit hours**

**Total for K-12 Physical Education Licensure: 84 credit hours**

## K-12 Physical Education Major, B.S.

[Department of Secondary, K-12 and Educational Technology](#)

[School of Education](#)

Available Program  
Format(s): In-Person

### About the Program

The Bachelor of Science in K-12 Physical Education prepares students to teach in public or private schools. Course work leads to elementary, secondary and K-12 physical education/ health education licensure in Colorado. In addition to the bachelor's degree program, we offer a licensure-only option for students who already hold a bachelor's degree in another discipline. Many of the classes are experience-based, meaning students are either physically active in our gyms, outdoor athletic facility or are in K-12 schools implementing teaching assignments. Additional opportunities are also provided by helping with field days and special events in schools and volunteer coaching opportunities. We prepare our students to teach diverse populations by giving them the opportunity to work and learn in urban, suburban, and rural environments. The core curriculum is designed to prepare candidates to pass the K-12 Physical Education PRAXIS exam and to utilize the Colorado Teacher Quality Standards. Licensure candidates need to meet with a K-12 Physical Education advisor. Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. In addition to preparing students for entry into teaching and coaching positions in grades K-12, this degree provides students the prerequisites for advanced degrees in education, sports administration, and other related disciplines. Health and Physical Educators are making a lasting impact on the future health of America. We take pride in helping students understand the importance of a healthy and active lifestyle.

### Student Outcomes

- Demonstrate physical education content and scientific and theoretical foundations when delivering an effective K-12 physical education program aligned with local, state and/or national standards.
- Exhibit skills of a physically literate individual who can demonstrate skillful performance in physical education content areas and health-enhancing levels of fitness.
- Validate an effective use of resources, accommodations and/or modifications, technology to address the diverse needs of all students.
- Engage students in meaningful learning experiences using communication, feedback, technology, and instructional and managerial skills to enhance student learning.
- Display knowledge to select and implement appropriate assessments to monitor students' progress and guide decision making related to instruction and learning.
- Connect Literacy and Math-Connect literacy, including Culturally and Linguistically Diverse (CLD), teaching strategies as well as mathematics to Physical Education teaching.

- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates learning for diverse populations, including CLD students.
- Demonstrate professionalism through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- **Recommended:** COMM 1010 - Presentational Speaking
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1610 - Integrated Mathematics I (Note: This course is required for the major/teacher licensure and can also meet general studies requirements in this category. However the credits for this course can only count toward the total credits for the degree once.)
- Arts and Humanities (6 credits)
- **Recommended:** Two of the following courses:
  - CHS 2010 - Survey of Chicana/o Literature, COMM 2010 - Gender and Communication, GWS 2770 - Gender and Communication, GWS 3260 - Gender, Social Justice and the Personal Narrative, JMP 1010 - Critical Thinking through 21st Century Media, PHI 1010 - Introduction to Philosophy or HON 1011 - Introduction to Philosophy, PHI 1030 - Introduction to Ethics, PHI 1040 - Introduction to Eastern Religions, PHI 1050 - Introduction to Western Religions, PHI 2040 - Philosophy of Religion, SLHS 3000 - Foundations of Disability Studies through Media, SPA 1020 - Elementary Spanish II
- Historical (3 credits)
- **Recommended:** One of the following courses:

- AAS 1130 - Survey of African History, GWS 1600 - Women in World History, HIS 1150 - Multicultural America, HIS 1250 - China and East Asia, HIS 1270 - India and South Asia, HIS 1300 - Introduction to Latin American History, HIS 1600 - Women in World History, HIS 1940 - Survey of African History, HON 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
- **Recommended:** BIO 1000 - Human Biology for Non-Majors and NUT 2040 - Introduction to Nutrition (Note: These courses are required for the major/teacher licensure and can also meet general studies requirements in this category. However the credits for these courses can only count toward the total credits for the degree once.)
- Social and Behavioral Sciences (6 credits)
- **Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy and ITP 1500 - Dynamics of Health (Note: These courses are required for the major/teacher licensure and can also meet general studies requirements in this category. However the credits for these courses can only count toward the total credits for the degree once.)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
- **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools (Note: This course is required for teacher licensure and can also meet the Multicultural requirement. However the credits for these courses can only count toward the total credits for the degree once.)

## Required K-12 Physical Education Major Courses: 64 credits

- BIO 1000 - Human Biology for Non-Majors **Credits:** 3
- HPS 4500 - Motor Learning and Development **Credits:** 3
- ITP 1500 - Dynamics of Health **Credits:** 3
- NUT 2040 - Introduction to Nutrition **Credits:** 3
- PETE 1601 - Introduction to Teaching Physical Education **Credits:** 3
- PETE 1665 - Methods of Teaching Outdoor Education **Credits:** 3
- PETE 1670 - Curricular Aspects of Elementary Physical Education **Credits:** 3
- PETE 1680 - Curricular Aspects of Secondary Physical Education **Credits:** 3
- PETE 2010 - Methods of Teaching Team Activities **Credits:** 3

- PETE 2030 - Teaching Weight Training and Fitness Education **Credits:** 3
- PETE 2040 - Methods of Teaching Individual/Dual Activities, Level I **Credits:** 3
- PETE 2090 - Methods of Teaching Individual/Dual Activities, Level II **Credits:** 3
- PETE 3000 - School Health Education **Credits:** 3
- PETE 3010 - Clinical Experience in School Health Education **Credits:** 2
- PETE 3200 - Movement Science for Teacher Education **Credits:** 4
- PETE 3400 - Methods of Teaching Secondary Physical Education **Credits:** 3
- PETE 3410 - Clinical Experience in Secondary Physical Education **Credits:** 2
- PETE 3460 - Health and Physical Education Assessment **Credits:** 3
- PETE 3500 - Methods of Teaching Elementary Physical Education **Credits:** 3
- PETE 3510 - Clinical Experience in Elementary Physical Education **Credits:** 2
- PETE 3800 - Risk Prevention, Assessment, and Intervention for Teacher Education **Credits:** 3
- PETE 4620 - Methods of Teaching Adapted Physical Education **Credits:** 3

## Additional Requirements for K-12 Physical Education Teacher Licensure: 26 credits

All students must complete the following courses in teaching foundations and strategies. Before registering for these courses, students should obtain admission to the School of Education. Please consult with an academic advisor.

- CLD 3310 - Integrated Methods of Teaching English as a Second Language **Credits:** 3  
or
- CLD 3910 - Assessment of English Language Learners **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 (satisfies Multicultural)
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- MTH 1610 - Integrated Mathematics I **Credits:** 3

*\* EDS 3130 and EDS 3140 must be taken concurrently.*

- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3

## Senior Experience: 12 credits

Students may take 6 credits of EDU 4190 and EDS 4290 or 12 credits of either student teaching course. Please consult with an academic advisor.

- EDU 4190 - Elementary Student Teaching and Seminar: K-6 **Credits:** 6,12
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Major Courses	64 credits
Additional Requirements	26 credits
Senior Experience	12 credits
<b>Total for the K-12 Physical Education Major, B.S.</b>	<b>Minimum 120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Secondary Education Minor (Non-Licensure)

The Secondary Education Minor will be of interest to candidates who wish to work with secondary aged children outside the classroom (for example, recreation programs, travel, summer camps, enrichment programs) or work with learners of all ages in corporate or other training/education programs. It provides necessary knowledge, skills and applications in real school settings to develop candidates' understanding of the principles of teaching and learning in middle and high schools. The minor provides an option that assists degree-seeking candidates pursuing licensure to complete their baccalaureate and teacher licensure requirements in four years. To emphasize the application of knowledge in the field as required in new performance standards for teachers, the minor features 120 field experience hours. The third field experience (which is normally connected to the content methods courses), is not required in the minor, but may be a required co-requisite for the methods course. Candidates seeking licensure need to complete additional requirements including formal admission to the Teacher Licensure Program and student teaching. The minor does not include all courses required for teacher licensure. A minimum grade of C- is required for each course to count toward the Secondary Education Minor.

## Required Courses:

### **Foundations:** (14 credits)

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1

- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3

### **Methods:** (10-16 credits)

- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3  
or
- RDG 3280 - Teaching Content Literacy Skills **Credits:** 3
- XXX XXX Content Methods in Major\*

Total: 24-30

Note:

\*Content and Methods coursework may be waived if required as part of major. See department.

## Post-Baccalaureate Secondary Education Teacher Licensure Programs

Admission requirements for post-baccalaureate candidates seeking licensure include evidence of having a conferred Bachelor's degree, as well as having met the University's and School of Education's admission criteria. Post-baccalaureate students should see an advisor in both their content area and in the School of Education at their earliest opportunity for advising.

It may be necessary for a post-baccalaureate candidate to complete additional courses in their chosen content area. These courses are in addition to the licensure sequence course work required to complete their approved teacher licensure program. All courses required for Post-Baccalaureate Secondary Education Teacher Licensure Programs need to be passed with a grade of C- and above.

Post-baccalaureate Secondary Education Licensure is available in the following content areas, please visit each page for program details:

- Secondary Education Post-Baccalaureate Licensure - English
- Secondary Education Post-Baccalaureate Licensure - Mathematics
- Secondary Education Post-Baccalaureate Licensure - Science
- Secondary Education Post-Baccalaureate Licensure - Social Studies

## Secondary Education Teacher Licensure Programs

The Secondary Education Licensure Program prepares candidates to teach content-area courses in grades 7-12. Through the sequence of

courses and field experiences, the candidate satisfies all of Colorado's performance-based standards for licensure in Secondary Education. Degree seeking Secondary Education Licensure candidates must choose from one of the following approved majors in order to complete a licensure program in Secondary Education.

### Majors with Secondary Education Licensure

- English
- Mathematics
- Science (Biology, Chemistry, Environmental Science, or Physics)
- Social Studies (Africana Studies, Chicana/o Studies, Economics, History, or Political Science)

The requirements of each major are designed to ensure licensure programs meet Colorado Licensure Standards to prepare candidates to pass required licensure content examinations and teach the Colorado Academic Standards within their discipline.

**\*All secondary licensure candidates must consult two advisors, one in the Secondary Education/K-12 Department in the School of Education and one in their major department (licensure content area).**

Candidates seeking teacher licensure must gain admission to the Secondary Education Teacher Licensure Program. You can learn about the application process by visiting the Student Services Office within the School of Education. Each Major program might have a different minimum grade requirement. However, all courses required for Secondary Education Teacher Licensure Program need to be passed with a grade of C- and above.

Visit the following pages for details on each undergraduate degree-seeking secondary teacher licensure program:

- [English Major, B.A. with Secondary English Teacher Licensure Concentration](#)
- [Mathematics Major with Secondary Mathematics Licensure](#)
- [Secondary Science Teacher Licensure Program](#)
- [Secondary Social Studies Teacher Licensure Program](#)

### English Major, B.A. with Secondary English Teacher Licensure Concentration

[Department of English](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [Online](#), [In-Person](#), [Hybrid](#)

### About the Program

Candidates seeking an undergraduate degree and licensure in English will major in English with a concentration in Secondary English Teacher Licensure. This concentration, offered in conjunction with the School of Education, prepares degree seeking, future secondary teachers of English to understand and teach the diverse subject matter

required for licensure. This program equips students with a wide variety of language principles and skills; practical experience in developing and teaching the processes of writing; sound knowledge of approaches to literature and literary genres; periods and authors (including a special focus on young adult literature); and an understanding of communication and media as used in English studies. In addition to meeting specified state and departmental requirements, this program offers students the opportunity to develop further specialization in writing, language, or literature to complement the major. The major provides student with a background in the Colorado Academic Standards for English and prepares them to pass the required content exam for licensure.

### Student Outcomes

#### Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching
- Teacher candidates will successfully complete student teaching

#### English Major B.A.

- Students can produce polished writing in a variety of genres appropriate to audience and purpose
- Understand how language is used, and the factors accounting for variation in language use
- Students identify and use appropriate methods in their research, assess their sources, and cite all sources professionally
- A student can analyze texts appropriate to the discipline, with an understanding of the ways in which texts can reflect or shape historical and cultural contexts.
- Students can apply appropriate disciplinary criticism or theory
- Examine diverse perspectives among the world-views, power structures, and experiences of individuals, groups, communities, and/or cultures, in historical and contemporary contexts, specifically through the lenses of race and ethnicity, global perspectives, and/or sexual and gender identities.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is required for this program. If pursuing licensure, students must minor in Secondary Education through the School of Education.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## English Major: 46 credits

### Literature Core: 21 credits

- ENG 2000 - Introduction to Textual Studies **Credits: 3**  
or
- ENG 2100 - Introduction to Literary Studies **Credits: 3**
- ENG 2210 - American Literature: Beginnings through the Civil War **Credits: 3**  
or
- ENG 2220 - American Literature: Civil War to Present **Credits: 3**

- ENG 2330 - British Literature: Late 1700s to the Present **Credits: 3**
- ENG 3100 - Chaucer, Shakespeare, Milton **Credits: 3**  
or
- ENG 4130 - Major Authors: Variable Topics **Credits: 3**  
\* ONLY ENG 413R Early Shakespeare OR ENG 413S Later Shakespeare
- ENG 3430 - Classical Mythology **Credits: 3**  
or
- ENG 3440 - Myth and Literature **Credits: 3**
- ENG 3470 - Young Adult Literature **Credits: 3**
- ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom **Credits: 3**

### Language Core: 3 credits

- LING 3011 - Analyzing English **Credits: 3**

### Composition Core: 3 credits

Students will take one of the following:

- ENG 3510 - Composition Studies: Theories and Practice **Credits: 3**
- ENG 3525 - Scholarly Writing **Credits: 3**
- ENG 3527 - Professional Writing **Credits: 3**

### Linguistics Course: 3 credits

Students will take one of the following:

- LING 3020 - History of the English Language **Credits: 3**
- LING 3050 - Language and Society **Credits: 3**

### Teaching English Core: 10 credits

- ENG 4600 - Teaching Literature, Communication, and Visual Literacy, 7-12 **Credits: 3**
- ENG 4620 - Teaching Composition, 7-12 **Credits: 3**
- ENG 4640 - Teaching English, 7-12 **Credits: 3** \*\*
- ENG 4641 - Field Experience in Teaching English in Secondary Schools **Credits: 1** \*\*

### Upper-Level Electives: 6 credits

Two upper-division English courses, at least one of which must be a literature course, selected in consultation with and approved by a designated English advisor.

### Foundation and Methods for Secondary Education: 24 credits

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12 \*\*

Note:

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
English Major Courses	46 credits
Foundation and Methods for Secondary Education	24 credits
Senior Experience	12 credits
Minor and Unrestricted Electives	2-17 credits
<b>Total for the English Major, B.A. with Secondary English Teacher Licensure Concentration</b>	<b>120 credits</b>

**Any General Studies course may count in multiple categories, however, credits for courses may only count once towards the 120 credit degree total. It is therefore important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Mathematics Major with Secondary Mathematics Licensure

The Department of Mathematical and Computer Sciences offers a major in Mathematical Sciences with a concentration in Mathematics Education. The goals of this program are to provide degree-seeking candidates with: (1) broad-based and coherent preparation in the various disciplines that constitute the mathematical sciences and; (2)

the pedagogical knowledge of mathematics needed to begin a career as a middle or high school mathematics teacher. Candidates are required to meet with one or more of the faculty advisors in the area of mathematics education as well as a teacher licensure advisor as they plan their academic program.

For information on specific major requirements for Mathematics majors pursuing secondary licensure please go here: [Mathematics Major, B.S.](#)

## Secondary Science Teacher Licensure Program

Undergraduate degree-seeking students interested in earning teacher licensure in Secondary Science Education must select from the following science major programs with teacher licensure. Please visit each individual page for program details.

- [Biology Major, B.A. with Secondary Science Teacher Licensure Concentration](#)
- [Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration](#)
- [Environmental Science Major, B.S., with Secondary Science Teacher Licensure Concentration](#)
- [Physics Major, B.A. with Secondary Science Teacher Licensure Concentration](#)

## Biology Major, B.A. with Secondary Science Teacher Licensure Concentration

[Department of Biology](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Biology Major with Secondary Licensure concentration is designed for those students who plan to teach Secondary Science. The program includes a Biology B.A. Major, and Secondary Education courses required by the Colorado Department of Education for licensure. The major provides students with a background in the Colorado Academic Standards for Science and prepares them to pass the required content exam for licensure.

## Student Outcomes

Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching.

- Teacher candidates will successfully complete student teaching.

#### Biology Major B.A.

- I.1 - 1.4. Biology graduates will demonstrate the ability to interpret and apply the principles of 1. Cell Biology, 2. Molecular Biology & Genetics, 3. Organismal Biology, and 4. Population Biology, Evolution, and Ecology.
- II.1. Biology graduates will demonstrate proper use and understanding of a broad range of biological techniques.
- II.2. Biology graduates will use knowledge and observations to formulate hypotheses, identify relevant variables and design experiments to test hypotheses.
- III.1. Biology graduates will demonstrate the ability to locate and critically analyze sources of biological information.
- III.2. Biology graduates will demonstrate the ability to communicate concepts in biology using the vocabulary of the discipline.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 126 semester hours are required for graduation in this program.
- This extended major does not require a minor.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree.
- A minimum GPA of 2.75 in the Biology Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Those recommended courses below can satisfy additional degree program requirements beyond General Studies.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Student may fulfill this General Studies requirement with MTH 1112 - College Algebra Through Modeling under Mathematics Courses for Secondary Science Licensure. (Note:

depending on the course selected, this may exceed 3 credits.)

- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses for Secondary Science Licensure Concentration. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Method Courses for Secondary Education. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Global Diversity (0 or 3 credits\*)

*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Biology Major Core Courses: 38 credits

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1091 - General Biology Laboratory II **Credits:** 1
- BIO 2400 - General Microbiology **Credits:** 5
- BIO 3230 - Principles of Human Anatomy and Physiology for Secondary Education **Credits:** 5
- BIO 3520 - General Ecology **Credits:** 3
- BIO 4850 - Evolution **Credits:** 3
- SCI 3950 - Teaching Science in Secondary Schools **Credits:** 3
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits:** 1

Please select one of the following:

- BIO 3600 - General Genetics **Credits:** 4

or

- BIO 3610 - Genetics: Principles and Analysis **Credits:** 4

Please select upper division Biology courses totaling a minimum of 6 credits:

- BIO 3000-4999 Biology Upper Division Elective
- BIO 3000-4999 Biology Upper Division Elective

## Additional Content Courses for Secondary Science Licensure: 34 credits

All students must complete thirty (30) credits in the following disciplines to prepare to teach Secondary Science. Six or more credits in this category can also satisfy General Studies requirements for Natural and Physical Sciences.

### Chemistry (10 Credits):

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1

### Physics (10 Credits):

- PHY 2010 - College Physics I **Credits:** 4
- PHY 2020 - College Physics II **Credits:** 4
- PHY 2030 - College Physics I Laboratory **Credits:** 1
- PHY 2040 - College Physics II Laboratory **Credits:** 1

### Earth and Space Science (7 Credits):

- GEL 1010 - Physical Geology **Credits:** 4

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits:** 3
- or
- GEG 1100 - Introduction to Physical Geography **Credits:** 3

### Math (7 Credits):

- MTH 1112 - College Algebra Through Modeling **Credits:** 4
- MTH 1120 - College Trigonometry **Credits:** 3

## Foundation and Methods Courses for Secondary Education: 24 credits

All students must complete the following courses in Foundation and Methods Courses for Secondary Education. Before registering for these courses, students should obtain provisional admission to the School of Education. An application can be found [HERE](#). Six or more credits in this category can also satisfy General Studies requirements for Social and Behavioral Sciences. Three credits in this category can also satisfy Multicultural requirement.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4

- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Biology Major Core Courses	38 credits
Additional Content Courses for Secondary Science Licensure	34 credits
Foundation and Methods Courses for Secondary Education	24 credits
Senior Experience	12 credits
Total for the Biology Major, B.A. with Secondary Science Teacher Licensure Concentration	126 credits

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration

[Department of Chemistry and Biochemistry](#)

[College of Letters, Arts and Sciences](#)

Available Program  
Format(s): [In-Person](#)

## About the Program

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Science Education with a major in Chemistry must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Chemistry major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Chemistry education program meets the Colorado Science Licensure Standards and addresses the objectives of the General Science content area examination. The core curriculum adds a firm foundation in Biology, Physics, Earth and Space Science, and Mathematics. The Colorado Academic Standards in Science are strongly emphasized within the curriculum. Science Licensure candidates must declare their major with the appropriate concentration in Secondary Science Licensure.

## Student Outcomes

### Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching.
- Teacher candidates will successfully complete student teaching.

### Chemistry Major, B.A.

- Apply the fundamental principles of chemistry and/or biochemistry, showing core competency in chemistry areas (general, analytical, organic, biochemistry and physical chemistry).
- Design and conduct experiments using appropriate techniques and equipment.
- Conduct scientific inquiry in an ethical manner.
- Handle chemicals and chemical waste safely.
- Search, critically evaluate, and properly cite scientific literature.
- Use effective oral and written communication skills.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Written Communication (6 credits)

Oral Communication (3 credits)

Quantitative Literacy (3 credits)

**Recommended:** Students may fulfill this General Studies requirement with MTH 1410 - Calculus I or its prerequisites.

Arts and Humanities (6 credits)

Historical (3 credits)

Natural and Physical Sciences (6 credits)

**Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses for Secondary Science Licensure Concentration.

Social and Behavioral Sciences (6 credits)

**Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Method Courses for Secondary Education.

Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Chemistry Major Core Courses: 36 credits

CHE 1800 - General Chemistry I **Credits:** 4

CHE 1801 - General Chemistry I Laboratory **Credits:** 1

CHE 1810 - General Chemistry II **Credits:** 4

CHE 1811 - General Chemistry II Laboratory **Credits:** 1

CHE 3000 - Analytical Chemistry **Credits:** 3

CHE 3010 - Analytical Chemistry Laboratory **Credits:** 2

CHE 3100 - Organic Chemistry I **Credits:** 4

CHE 3110 - Organic Chemistry II **Credits:** 3

CHE 3120 - Organic Chemistry Laboratory 1 **Credits:** 1

CHE 3130 - Organic Chemistry Laboratory II **Credits:** 2

CHE 3190 - Survey of Physical Chemistry **Credits:** 4

CHE 3200 - Survey of Physical Chemistry Laboratory **Credits:**

1

Upper Division Chemistry Electives: 6 credit hours

## Additional Content Courses Required for Secondary Science Licensure: 29 credits

Six or more credits in this category can also satisfy General Studies requirements for Natural and Physical Sciences.

### Biology (8 credits):

BIO 1080 - General Biology I **Credits:** 3

BIO 1081 - General Biology II **Credits:** 3

BIO 1090 - General Biology Laboratory I **Credits:** 1

BIO 1091 - General Biology Laboratory II **Credits:** 1

### Physics (10 credits):

PHY 2010 - College Physics I **Credits:** 4

PHY 2020 - College Physics II **Credits:** 4

PHY 2030 - College Physics I Laboratory **Credits:** 1

PHY 2040 - College Physics II Laboratory **Credits:** 1

### Earth and Space Science (7 credits):

GEL 1010 - Physical Geology **Credits:** 4

MTR 1400 - Weather and Climate **Credits:** 3

or

GEG 1100 - Introduction to Physical Geography **Credits:** 3

### Mathematics:

MTH 1410 - Calculus I **Credits:** 4

## Secondary Education Foundation and Methods Courses: 28 credits

All the courses in this area are required for Secondary Science Licensure. Some course pairs must be taken together; please see an advisor in the School of Education for more detail on recommended sequence. You should complete your General Studies and at least half of your major and additional content area courses before beginning Teacher Education courses.

EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*

EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*

EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*

CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3

EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3

SED 3600 - Exceptional Learners in the Classroom **Credits:** 3

EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*

EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*

EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*

SCI 3950 - Teaching Science in Secondary Schools **Credits:** 3 \*\*

SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits:** 1 (60-hour field experience)\*\*

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Senior Experience: 12 credits

EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Chemistry Major Courses	36 credits
Additional Content Courses Required for Secondary Science Licensure	29 credits
Foundation and Methods Courses	28 credits
Senior Experience	12 credits
<b>Total for the Chemistry Major, B.A. with Secondary Science Teacher Licensure Concentration</b>	<b>Minimum 123 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Environmental Science Major, B.S., with Secondary Science Teacher Licensure Concentration

[Department of Earth and Atmospheric Sciences](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

Degree seeking candidates who wish to obtain Colorado Secondary Science teacher licensure with a major in Environmental Science must earn a Bachelor of Science (BS) degree. The interdisciplinary

requirements for the Environmental Science major with a concentration in Secondary Science is designed to ensure that the Environmental Science education program meets the Colorado Science Licensure Standards and addresses the objectives of the Science content area examination. The core curriculum provides a firm foundation in Biology, Physics, Chemistry, Earth and Space Science, and Mathematics. The Colorado Academic Standards in Science are also strongly emphasized within the curriculum. Science Licensure candidates must declare their major with the appropriate concentration in Secondary Science Licensure.

## Student Outcomes

### Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.
- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching
- Teacher candidates will successfully complete student teaching

### Environmental Science Major B.S.

- Students will be able to identify and explain environmental processes and human - environment interactions.
- Students will be able to apply interdisciplinary perspectives and approaches to environmental problems.
- Students will be able to critically assess and evaluate environmental problems at a local and global scale.
- Students will be able to acquire the ability to monitor and sample environmental conditions.
- Students will be able to design effective oral presentations and scientific papers.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 122 semester hours are required for graduation in this program.
- This extended major does not require a minor.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree.
- A minimum GPA of 2.75 in the Environmental Science Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Those recommended courses below can satisfy additional degree program requirements beyond General Studies.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with MTH 1210 or MTH 1410 under Mathematics Courses for Secondary Science Licensure. (Note: depending on the course selected, this may exceed 3 credits.)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** Students may fulfill this General Studies requirement with Additional Content Courses or Environmental Science Core Courses for Secondary Science Licensure Concentration. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Students may fulfill this requirement with EDS 3130 - Foundations of Educational Psychology and Philosophy and EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools, which also meet requirements under Foundation and Methods Courses for Secondary Education. (Note: depending on the courses selected, this total may exceed 6 credits.)
- Global Diversity (0-3 credits\*)

*\*Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students can consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Environmental Science Major Core Courses: 46 credits

Below are major requirements for the Environmental Science Major with Teacher Licensure.

**Environmental Science Core**

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 1091 - General Biology Laboratory II **Credits: 1**
- CHE 1800 - General Chemistry I **Credits: 4**
- CHE 1801 - General Chemistry I Laboratory **Credits: 1**
- CHE 1810 - General Chemistry II **Credits: 4**
- CHE 1811 - General Chemistry II Laboratory **Credits: 1**
- ENV 1200 - Introduction to Environmental Science **Credits: 3**
- ENV 3400 - Water Resources **Credits: 3**
- ENV 4200 - Environmental Policy and Planning **Credits: 3**
- GEL 1010 - Physical Geology **Credits: 4**

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits: 3**
- or
- MTR 1600 - Global Climate Change **Credits: 3**

**Environmental Science Major Electives**

- Students must take 12 credits of additional Environmental Science (ENV) courses, 3 credits of which may be Geology (GEL) courses, selected in consultation with an Environmental Science advisor.

Select 9 credits of ENV courses:

- ENV 2000-4999 ENV Electives

Select 3 credits of ENV or GEL courses:

- ENV 2000-4999 ENV Electives

or

- GEL 2000-4999 GEL Electives

**Additional Content Courses Required for Science Licensure: 18 credits**

**Physics** (take all four of these courses):

- PHY 2010 - College Physics I **Credits: 4**
- PHY 2020 - College Physics II **Credits: 4**
- PHY 2030 - College Physics I Laboratory **Credits: 1**
- PHY 2040 - College Physics II Laboratory **Credits: 1**

**Math** (take both of the following courses):

- MTH 1210 - Introduction to Statistics **Credits: 4**
- MTH 1410 - Calculus I **Credits: 4**

**Foundation and Methods Courses for Secondary Education: 28 credits**

All students must complete the following courses in Foundation and Methods Courses for Secondary Education. Before registering for these courses, students should obtain provisional admission to the School of Education. An application can be found [HERE](#). Six or more credits in this category can also satisfy General Studies requirements for Social and Behavioral Sciences. Three credits in this category can also satisfy Multicultural requirement.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4 \***
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1 \***
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3 \***
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3 \*\***
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1 \*\***
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3 \*\***
- SCI 3950 - Teaching Science in Secondary Schools **Credits: 3 \*\***
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits: 1 \*\***

*\* Requires at least provisional admission to the School of Education*

*\*\*Requires formal admission to the School of Education*

**Senior Experience: 12 credits**

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

**Summary of Requirements**

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Environmental Science Major Core Courses	46 credits
Additional Content Courses Required for Science Licensure	18 credits
Foundation and Methods Courses for Secondary Education	28 credits
Senior Experience	12 credits
<b>Total for the Environmental Science Major, B.S. with Secondary Science Teacher Licensure Concentration</b>	<b>122 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## **Physics Major, B.A. with Secondary Science Teacher Licensure Concentration**

[Department of Physics](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### **About the Program**

The Department of Physics at the Metropolitan State University of Denver offers programs leading to a Bachelor of Science in Physics, a Bachelor of Arts in Physics, and a minor in physics. We also offer a Bachelor of Arts in Physics with Secondary Science Teacher Licensure. We offer introductory courses designed for both STEM majors as well as for the enrichment of non-science majors, including introductory physics, astronomy, and cosmology. We prepare our physics majors for graduate study in a wide range of disciplines including physics, astronomy, engineering, and science education, and for successful employment in technologically oriented industries. Our faculty are outstanding classroom teachers, bringing rigorous coursework, laboratory experience, advising and mentoring to our students. They maintain professional currency and engage in scholarly activities through involvement in undergraduate research, personalized professional development programs, and projects associated with teaching and learning. We seek to increase the science literacy of the Denver community through science outreach and an increasingly strong role in the education of future teachers.

Degree seeking candidates who wish to obtain Colorado teacher licensure for Secondary Science Education with a major in Physics must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Physics major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Physics education program meets the Colorado Science Licensure Standards and addresses the objectives of the General Science content area examination. The core curriculum adds a firm foundation in Biology, Chemistry, Earth and Space Science, and Mathematics. The Colorado Academic Standards are strongly emphasized within the curriculum. The core curriculum is supported by the depth of the major in Physics.

### **Student Outcomes**

Secondary Education

- Students in Secondary/K-12 Education teacher licensure programs will demonstrate awareness of multiculturalism, diversity, equity, and inclusion.

- Students in Secondary/K-12 Education teacher licensure program will gain readiness and eligibility for student teaching
- Teacher candidates will successfully complete student teaching

Physics Major B.A.

- Develop mathematical skills that facilitate their understanding of the fundamental principles of physics and enable problem solving.
- Apply advanced mathematical techniques (understanding vectors in multiple coordinate systems, solving differential equations, and basic computational skills).
- Use standard laboratory equipment to collect data and perform quantitative evaluations of the experimental outcome.
- Communicate the process and outcomes of scientific experiments using scientifically sound reports including posters, papers, and oral presentations.
- Demonstrate content and pedagogical expertise in teaching science.
- Plan and deliver effective instructions in science to the diverse body of students.
- Demonstrate knowledge of language acquisition and culturally linguistically diverse learners.

### **General Degree Requirements**

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### **Program Requirements**

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minimum GPA of 2.75 in the Physics Major and Additional Content Courses for Secondary Science Licensure is needed to apply for student teaching.

### **General Studies Requirements: 33 credits**

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)

- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1410 - Calculus I (Note: this course also meets the Mathematics requirements for Additional Content Courses for Secondary Science Licensure. Depending on the course selected, this category may exceed 3 credits.)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** this category of General Studies can also be met by courses required in Additional Content Courses for Secondary Science Licensure. Depending on the course selected, this category may exceed 6 credits.
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** EDS 3130 - Foundations of Educational Psychology and Philosophy
  - **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools
  - Note: these courses also meets the requirements in Foundation and Methods courses for Secondary Education. Depending on the course selected, this category may exceed 6 credits.
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.

- Students can fulfill this requirement with EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools.

## Physics Major Core Courses: 32 credits

- MTH 2420 - Calculus III **Credits:** 4
- PHY 2311 - General Physics I **Credits:** 4
- PHY 2321 - General Physics I Laboratory **Credits:** 1
- PHY 2331 - General Physics II **Credits:** 4
- PHY 2341 - General Physics II Laboratory **Credits:** 1
- PHY 2711 - Vibrations, Waves, and Mathematical Methods **Credits:** 4
- PHY 2811 - Modern Physics I **Credits:** 4
- PHY 2821 - Modern Physics Laboratory **Credits:** 1
- PHY 3011 - Modern Physics II **Credits:** 3
- PHY 3711 - Physics Laboratory I **Credits:** 2

- PHY 4921 - Physics Senior Seminar **Credits:** 1
- SCI 3950 - Teaching Science in Secondary Schools **Credits:** 3

## Additional Courses for Secondary Science Licensure: 33 credits

All students must complete courses in the following disciplines to prepare to teach Secondary Science. Ten or more credits in this category can also satisfy General Studies requirements for Quantitative Literacy and Natural and Physical Sciences.

### Biology Requirements (8 credits):

- BIO 1080 - General Biology I **Credits:** 3
- BIO 1081 - General Biology II **Credits:** 3
- BIO 1090 - General Biology Laboratory I **Credits:** 1
- BIO 1091 - General Biology Laboratory II **Credits:** 1

### Chemistry Requirements (10 credits):

- CHE 1800 - General Chemistry I **Credits:** 4
- CHE 1801 - General Chemistry I Laboratory **Credits:** 1
- CHE 1810 - General Chemistry II **Credits:** 4
- CHE 1811 - General Chemistry II Laboratory **Credits:** 1

### Earth Space Science Requirements (7 credits):

- GEL 1010 - Physical Geology **Credits:** 4

Select one of the following courses:

- MTR 1400 - Weather and Climate **Credits:** 3
- OR
- GEG 1100 - Introduction to Physical Geography **Credits:** 3

### Mathematics Requirements (8 credits):

- MTH 1410 - Calculus I **Credits:** 4
- MTH 2410 - Calculus II **Credits:** 4

## Foundation and Methods Courses for Secondary Education: 28 credits

All the courses in the this area are required for Secondary Science Licensure. Some course pairs must be taken together; please see an advisor in the School of Education for more detail on recommended sequence.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*  
[EDS 3130 and EDS 3140 must be taken concurrently.]
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3

- SED 3600 - Exceptional Learners in the Classroom  
**Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*  
[EDS 3210 and EDS 3240 must be taken concurrently.]
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- CLD 3910 - Assessment of English Language Learners **Credits:** 3
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools **Credits:** 1  
[SCI 3950 (listed in the major) and SCI 3960 must be taken concurrently]
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12 \*\*

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Senior Experience: 12 credits

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Physics Major Core Courses	32 credits
Additional Courses for Secondary Science Licensure	33 credits
Foundation and Methods Courses for Secondary Education	28 credits
Senior Experience	12 credits
<b>Total for the Physics Major, B.A. with Secondary Science Teacher Licensure Concentration</b>	<b>123 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Secondary Social Studies Teacher Licensure Program

Candidates who wish to obtain Colorado Licensure for Secondary Social Studies must earn a Bachelor of Arts (B.A.) degree in one of the following disciplines: History, Political Science, Economics, Chicano Studies, or African American Studies. In addition to course requirements in the major, all Social Studies licensure candidates must complete a core curriculum that provides a foundation in History, Geography, Political Science, Economics, and Behavioral Science and prepares them to pass the appropriate Social Studies Content examination. The core curriculum is supported by courses in the major. Social Studies Licensure candidates must declare their major with the appropriate concentration in Secondary Social Studies Licensure.

Undergraduate degree-seeking students interested in earning teacher licensure in Secondary Social Studies Education must select from the following Social Studies major programs with teacher licensure. Please visit each individual page for program details.

- [Africana Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Chicano Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [History Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)
- [Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration](#)

## Africana Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Africana Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The African American Studies major will provide candidates with a comprehensive understanding of African heritage in this country through examination of African links; the contributions of African American people in the growth and development of the United States; African American community, culture, lifestyles, political activity, religious development, community service and resource assistance; as well as the prognosis and potential for social change.

Students interested in an Africana Studies Major only should search the catalog separately for that program.

## Student Outcomes

- List and identify the major contributions of African Americans over the past 400 years and of the peoples of African descent from the earliest times (from Ancient Egypt) to the present in various areas such as history, politics, arts religion, economics, etc.

- Define and examine the evolution of the multidisciplinary field of Africana Studies
- Explain the key social, economic, political, and cultural issues and challenges facing African Americans and peoples of African descent, including those on Continental Africa, such as slavery, racism, colonialism, political disfranchisement, economic underdevelopment, educational disparities, neo-colonialism and judicial inequalities, etc.
- Compare and contrast the similarities and differences in the experiences of African Americans and peoples of African descent, such as historical achievements, economic development, state formations, cultural achievements, slavery and freedom, colonialism, and struggles for independence and equality.
- Discuss and analyze the methodological approaches used to study Africana Studies.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Courses recommended below will satisfy both General Studies and additional degree requirements below.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
- Historical (3 credits)
  - **Recommended:** HIS 1030 - World History to 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the following: ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of Macroeconomics; GEG 1000 - World Regional Geography; PSC 1010 - American National Government
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of at least 124 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Africana Studies Major Core: 24 credits

- AAS 1010 - Introduction to Africana Studies **Credits: 3**
- AAS 1130 - Survey of African History **Credits: 3**
- AAS 2000 - Social Movements and the Black Experience **Credits: 3**
- AAS 2010 - Interdisciplinary Research Methods in Social Issues **Credits: 3**
- AAS 3570 - African American History I **Credits: 3**
- AAS 3630 - The African Diaspora **Credits: 3**
- AAS 4850 - Research Seminar in Africana Studies **Credits: 3**

## General Studies Requirements: 33 credits

Select one from the following:

- AAS 3250 - Black Women Writers **Credits: 3**
- AAS 3300 - The Black Community **Credits: 3**
- AAS 3550 - The Black Family **Credits: 3**
- AAS 3930 - African Authors **Credits: 3**

## Africana Studies Major Electives: 12 credits

Select 12 semester hours of Africana Studies electives in consultation with an advisor.

## Additional Content Courses Secondary Social Studies Licensure: 27 credits

All students must complete nine (9) Social Science courses for this concentration. Note that six credits below can also satisfy General Studies Social and Behavioral Science requirement. Three credits can satisfy the General Studies Historical requirement. Additionally, GEG 1100 can satisfy three credits of the General Studies Natural and Physical Science requirement.

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**  
or
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

## Foundation and Methods for Secondary Education: 31 credits

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**

- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1**
- MTH 1610 - Integrated Mathematics I **Credits: 3**

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Africana Studies Major Core	24 credits
Africana Studies Major Electives	12 credits
Additional Content Courses Secondary Social Studies Licensure	27 credits
Foundation and Methods for Secondary Education	31 credits
Senior Experience	12 credits
<b>Total for the Africana Studies Major, B.A. with Secondary Social Studies Licensure Total</b>	<b>Minimum of 124 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## Chicano Studies Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Chicana and Chicano Studies](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

The Chicana/o Studies Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach secondary Social Studies in Colorado. The program includes a Chicana/o Studies Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure.

Students interested in a Chicana/o Studies Major only should search the catalog separately for that program.

## Student Outcomes

- Analyze literary works including reference to genre, theme, and tone use of language;
- Identify and analyze cultural texts and artifacts as relevant sources of cultural production;
- Explain phenomena that shape gender roles and relations within Chicana/o & Latina/o communities; i.e. patriarchy, machismo, marianismo, virgin/whore dichotomy;
- Demonstrate intermediate competency in the principle domains of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Identify the sociolinguistic factors that reflect the evolution and utilization of the Spanish language among Chicana/o & Latina/o populations in the U.S.
- Demonstrate the ability to utilize praxis: theory + action + reflection, in multiple settings:
- Analyze public policy issues that impact Chicana/o & Latina/o communities: i.e. legal, health care, globalization, free trade, immigration, education and climate change;
- Outline/explain major historical moments and figures that have shaped Chicana/o Latina/o socio-cultural experiences;
- Compare and contrast diverse religious and spiritual experiences in Chicana/o Latina/o communities;
- Recognize the diverse indigenous peoples & communities throughout Meso-America and the contemporary Southwest, which have Chicana/o & Latina/o identities.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 121 semester hours are required for graduation.
- All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
  - **Recommended:** CHS 2010 - Survey of Chicana/o Literature
- Historical (3 credits)
  - **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the Following: PSC 1010 - American National Government; ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of Macroeconomics; GEG 1000 - World Regional Geography
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - This requirement can be satisfied with any CHS course with Multicultural designation

## Chicano Studies Major: 24 credits

The Chicana/o Studies Department (CHS) adheres to the core values of social justice, human rights, empowerment, cultural responsiveness and service to community. Our teaching, scholarship and mentoring are informed by liberatory theories and pedagogical practices articulated in the work of scholars such as Paolo Freire, bell hooks, Angela Valenzuela, who assume that the teacher is not all-knowing or neutral; the teacher shares their knowledge within their philosophical framework and both teachers and students have a vested interest in the reciprocal process of learning.

Our mission is to prepare and empower culturally responsive students to engage in critical thinking about the sociohistorical, multicultural, intersectional, and global contexts in which they live, learn and work; understand the changing demographics in US society; and to articulate and analyze public policy issues and implications grounded in the diverse experiences, expressions, social conditions of Chicano/a/x and Latino/a/x and Indigenous communities.

- CHS 1000 - Introduction to Chicana/o Studies **Credits: 3**
- CHS 2000 - Living Culture and Language of the Mexican and Chicano **Credits: 3**
- CHS 2010 - Survey of Chicana/o Literature **Credits: 3**
- CHS 3020 - Chicana/o History, 1836 to the Present **Credits: 3**
- CHS 3300 - Education of Chicano Children **Credits: 3**
- CHS 3460 - Chicana Feminisms **Credits: 3**
- CHS 4850 - Research Experience in Chicana/o Studies **Credits: 3**

Take one of the following courses:

- CHS 2500 - Borderland Studies: Variable Topics **Credits: 3**
- CHS 2600 - Chicana/o and Latina/o Religious Cultures **Credits: 3**
- CHS 3660 - Poverty, Race and Gender **Credits: 3**
- CHS 3800 - Topics in Chicano Studies **Credits: 3**

## Additional Social Science Courses for this Concentration: 33 credits

All students must complete thirty-three (33) credits of Social Science courses for this concentration. Note that twelve credits below can also satisfy General Studies requirements in these categories: Historical (3 credits), Natural and Physical Sciences (3 credits), Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

## Foundations and Strategies for Secondary Teaching: 34 credits

Many of the courses in this section of the degree program require admission to the MSU Denver School of Education. Please see a School of Education advisor or the MSU Denver School of Education website for details.

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1**
- MTH 1610 - Integrated Mathematics I **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590

Culturally and Linguistically Diverse: ESL Student Teaching Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Chicano Studies Major	24 credits
Additional Social Science Courses for this Concentration	33 credits
Foundations and Strategies for Secondary Teaching	34 credits
Senior Experience	12 credits
<b>Total for the Chicano Studies Major, B.A. with Concentration in Secondary Social Studies Licensure</b>	<b>121 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of Economics](#)

Available Program Format(s): [In-Person](#)

[College of Business](#)

### About the Program

The Economics Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach Social Studies in Colorado. The program includes an Economics Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure.

Students interested in an Economics Major only should search the MSU Denver catalog separately for that degree option.

### Student Outcomes

Economics Student Learning Outcomes:

- Apply tools of microeconomic analysis to explain microeconomic relationships and phenomena.

- Apply tools of macroeconomic analysis to explain macroeconomic and monetary relationships and phenomena.
- Apply tools of statistical analysis to explain economic relationships and phenomena.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

Secondary Social Studies Licensure Student Learning Outcomes:

- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 123 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

- A minor is not required for this program.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

Courses recommended below will satisfy both General Studies and additional degree requirements below.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1210 - Introduction to Statistics which also satisfies a major requirement.
- Arts and Humanities (6 credits)
- Historical (3 credits)
  - **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the following: PSC 1010 - American National Government; ANT 2330 - Cross-Cultural Communication; GEG 1000 - World Regional Geography
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
  - **Recommended:** EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools

## Economics Major Core: 15 credits

- ECO 2010 - Principles of Macroeconomics **Credits:** 3
- ECO 2020 - Principles of Microeconomics **Credits:** 3
- ECO 3010 - Intermediate Microeconomics **Credits:** 3
- ECO 3020 - Intermediate Macroeconomic Theory **Credits:** 3

- ECO 3150 - Econometrics **Credits:** 3  
or
- ECO 3160 - Business and Economic Forecasting **Credits:** 3

## Economics Major Electives: 15 credits

- ECO 3200 - Economic History of the U S **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3
- ECO xxxx Selected in consultation with an advisor **Credits:** 3

## Required Math Courses: 8 credits

Take one of the following three courses:

- MTH 1110 - College Algebra for Calculus **Credits:** 4
  - MTH 1310 - Finite Mathematics for the Management and Social Sciences **Credits:** 4
  - MTH 1400 - Precalculus Mathematics **Credits:** 4
- Take the following course:
- MTH 1210 - Introduction to Statistics **Credits:** 4  
(This course is a pre-requisite for ECO 3150 and ECO 3160)

Note:

MTH 1210 will also fulfill General Studies Quantitative Literacy requirement.

## Additional Content Courses for Secondary Social Studies Licensure: 27 credits

All students must complete nine Social Science courses for this concentration. Note that twelve credits below can also satisfy General Studies requirements in these categories: Historical (3 credits); Natural and Physical Sciences (3 credits); Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits:** 3
- HIS 1040 - World History since 1500 **Credits:** 3
- HIS 1210 - American History to 1865 **Credits:** 3
- HIS 1220 - American History since 1865 **Credits:** 3
- GEG 1000 - World Regional Geography **Credits:** 3
- GEG 1100 - Introduction to Physical Geography **Credits:** 3
- ANT 2330 - Cross-Cultural Communication **Credits:** 3
- PSC 1010 - American National Government **Credits:** 3
- PSC 2230 - Introduction to International Relations **Credits:** 3

## Foundations and Strategies for Secondary Teaching: 28 credits

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits:** 4 \*
- EDS 3140 - First Field Experience in Secondary Education **Credits:** 1 \*
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits:** 3 \*
- EDT 3010 - Integrating Educational Technology into Teaching **Credits:** 3
- SED 3600 - Exceptional Learners in the Classroom **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits:** 3 \*\*
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits:** 1 \*\*
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits:** 3 \*\*
- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits:** 3 \*\*
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits:** 1 (60-hour field experience)\*\*

Note:

\* Requires at least provisional admission to the School of Education

\*\*Requires formal admission to the School of Education

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should complete 12 credits of EDS 4290 in their final semester.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits:** 6,12

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Economics Major Core	15 credits
Economics Major Electives	15 credits
Required Math Courses	8 credits
Additional Content Courses Secondary Social Studies Licensure	27 credits
Foundation and Strategies for Secondary Teaching Courses	28 credits
Senior Experience	12 credits

<b>Total for the Economics Major, B.A. with Secondary Social Studies Teacher Licensure Concentration</b>	<b>Minimum of 123 credits</b>
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Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## History Major, B.A. with Secondary Social Studies Teacher Licensure Concentration

[Department of History](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

## About the Program

This program combines a History Education Major with a concentration in Secondary Social Studies licensure. It prepares teacher candidates to teach Social Studies subjects in diverse secondary schools with some additional training in culturally and linguistically diverse teaching.

## Student Outcomes

- Locate sources-- Demonstrate the ability to locate sources when information is needed, and to evaluate the authenticity, validity, and reliability of resources applied to a specific purpose.
- Communicate in writing-- Communicate in writing with an awareness of audience, by using language conventions appropriate to the occasion and task.
- Employ historical knowledge-- Demonstrate historical knowledge of the United States, the world, and major regions of the world.
- Understand context-- Demonstrate, using historical sources, how context and contingency influence change over time.
- Interpret evidence-- Develop an effective historical interpretation and marshal primary and/or secondary source evidence to support it.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment--Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.

- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion. Courses recommended below will satisfy both General Studies and Major or Concentration requirements.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
  - **Recommended:** MTH 1610 - Integrated Mathematics I
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
  - **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
  - **Recommended:** Two of the following: ANT 2330 - Cross-Cultural Communication, ECO 2010 - Principles of Macroeconomics, ECO 2020 - Principles of Microeconomics, GEG 1000 - World Regional Geography, PSC 1010 - American National Government, or PSC 2230 - Introduction to International Relations
- Global Diversity (0-3 credits).

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## History Major: 42 credits

The History Major requires thirty-nine (39) credits of History courses beyond the Historical General Studies requirement. A grade of "C-" or better is required for each course in this program to count toward licensure. Note that students can register strategically to apply their General Studies Global Diversity course requirement and the Multicultural course requirement toward History Major requirements

below. All students should check with a departmental adviser to plan their selection of courses in the Major.

## History Education Major Core: 12 credits

Students should complete four (4) introductory courses in History from the list below, one of which will also count for the Historical General Studies requirement. The department recommends that students choose at least TWO American History courses for the degree program to prepare for teaching at the secondary level.

- HIS 1005 - Ancient Civilizations **Credits:** 3
- HIS 1030 - World History to 1500 **Credits:** 3
- HIS 1035 - The Medieval World **Credits:** 3
- HIS 1040 - World History since 1500 **Credits:** 3
- HIS 1045 - Europe, Renaissance to the Present **Credits:** 3
- HIS 1150 - Multicultural America **Credits:** 3
- HIS 1210 - American History to 1865 **Credits:** 3
- HIS 1220 - American History since 1865 **Credits:** 3
- HIS 1250 - China and East Asia **Credits:** 3
- HIS 1270 - India and South Asia **Credits:** 3
- HIS 1300 - Introduction to Latin American History **Credits:** 3
- HIS 1600 - Women in World History **Credits:** 3
- HIS 1700 - Nature and Society **Credits:** 3
- HIS 1940 - Survey of African History **Credits:** 3

## Upper-Division History Electives: 18 credits

Students need at least eighteen (18) upper-division elective credits for the History Major. These are 3000 and 4000 level History courses. Nine of these upper-division credits should focus on these specific regions. Note that course number ranges correspond to designated regions:

- At least one upper-division course in American History (HIS 3400-3699)
- At least one upper-division course in European History (HIS 3100-3399)
- At least one upper-division course in World History (HIS 3700-3799)

Also recommended as upper-division History Electives are:

- HIS 3425 - Colorado and the Nation (3 credits)
- HIS 3720 - Themes in World History: Variable Topics (3 credits)
- A Historical Writing and Thinking Course (HIS 3000-3050) (3 credits)

## Broad History Electives: 9 credits

Nine (9) additional elective credits are needed for the History Major. These can be taken at the lower-division (HIS 1000-1999) or upper-division level (HIS 3000-3999).

There are some one-credit courses that can count toward this nine-credit elective requirement in the Major. These are:

- HIS 3990 - History Pedagogy Laboratory (Note: this course can be repeated with different instructors)
- HIS 3991 - Undergraduate Teaching Assistant (Note: this course can be repeated with different instructors)
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools (Note: this course is required as a Foundations and Teachings Strategies Course below, but the one credit may only count once toward the degree total).

### Major Capstone Course: 3 credits

The three-credit Social Studies methods course is typically taken along with HIS 4020 Field Experience in Teaching Social Studies in Secondary Schools.

- HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**

### Additional Requirements for the Concentration in Secondary Social Studies Licensure: 52 credits

#### Social Science Courses: 21 credits

All students must complete twenty-one (21) credits in the following Social Science disciplines to prepare to teach secondary Social Studies. Note that six credits below can also satisfy the General Studies Social and Behavioral Sciences requirement. Additionally, GEG 1100 can satisfy three credits of the General Studies Natural and Physical Science requirement. So the subtotal of credits required for this section could drop to twelve if students also complete the recommended General Studies courses.

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**
- PSC 1010 - American National Government **Credits: 3**
- PSC 2230 - Introduction to International Relations **Credits: 3**

#### Foundations and Strategies for Secondary Teaching: 31 credits

This Secondary Education Licensure Program prepares candidates to teach Social Studies courses in grades 6-12. With the courses and field experiences below, candidates satisfy the Colorado Department of Education Teacher Quality Standards for licensure in Secondary Education.

- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- MTH 1610 - Integrated Mathematics I **Credits: 3**  
Note: students who take this course to meet the General Studies Quantitative Literacy requirement will not have three additional credits in this section of their degree program.
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1**

#### Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
History Major Core	42 credits
Social Science Courses	21 credits
Foundations and Strategies for Secondary Teaching	31 credits
Senior Experience	12 credits
<b>Total Credits for History Major, B.A. with Concentration in Secondary Social Studies Licensure</b>	<b>124 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

## **Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration**

[Department of Political Science](#)

[College of Letters, Arts and Sciences](#)

Available Program Format(s): [In-Person](#)

### **About the Program**

The Political Science Major with a Concentration in Secondary Social Studies Licensure is designed for those students who plan to teach Social Studies in Colorado. The program includes a Political Science Major, a Social Studies focus, and Secondary Education courses required by the Colorado Department of Education for licensure. Degree seeking students who wish to obtain Colorado Licensure for Secondary Social Studies with a major in Political Science must earn a Bachelor of Arts (B.A.) degree. In addition to course requirements in the major, all Social Studies licensure candidates must complete a core curriculum that provides a foundation in History, Geography, Economics, and Behavioral Science and addresses the objectives of the content area examination. The core curriculum is supported by courses in the major. The Political Science major will take courses in political theory, political analysis, and coursework in American or international/comparative political systems.

### **Student Outcomes**

- Link theory and practice and apply political science knowledge and skills to actual problem-solving and community service; acquire citizenship skills, ethical values, and understand and appreciate human diversity; and engage in community life as active citizens.
- Demonstrate substantive knowledge of institutions, processes, behaviors and values that shape politics within or among States.
- Understand the history of classical and modern political thought, the fundamental values and ethical issues contested in politics over time, and alternative moral and ethical frameworks for interpreting contemporary political discourses.
- Understand political science research and analytical skills, including critical thinking, logical argumentation, and how to collect, analyze and interpret evidence and data to formulate reasoned conclusions.
- Effectively deliver professional written communications.
- Understand and interpret qualitative and quantitative evidence and data, and formulate and communicate reasoned conclusions from these methods.
- Effectively engage in oral communications and presentations in professional fields related to politics, public policy and the law.

- Understand career options available with an undergraduate degree in political science; its utility in the public and private sectors; and its value as entry into a range of graduate programs and law schools.
- Demonstrate mastery of pedagogical strategies in Social Studies for secondary school teaching.
- Connect Literacy and Math-Utilize literacy, including Culturally and Linguistically Diverse (CLD), strategies as well as mathematics when teaching Social Studies.
- Create Inclusive Teaching Environment-Create a safe, inclusive and respectful learning environment that facilitates Social Studies learning for diverse populations, including CLD students.
- Plan and deliver effective instruction in History, Civics, and Geography.
- Demonstrate professionalism as a teacher candidate through ethical conduct, reflection, and leadership.
- Demonstrate knowledge of first and second language acquisition and teaching strategies for CLD students.

### **General Degree Requirements**

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### **Program Requirements**

- A total of 124 semester hours are required for graduation.
- All courses required for teacher licensure must be passed with a grade of C- or higher. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### **General Studies Requirements: 33 credits**

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1610 - Integrated Mathematics I (required in the Foundations and Strategies section of the program)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- **Recommended:** HIS 1040 - World History since 1500
- Natural and Physical Sciences (6 credits)
- **Recommended:** GEG 1100 - Introduction to Physical Geography
- Social and Behavioral Sciences (6 credits)
- **Recommended:** Two of the following- ANT 2330 - Cross-Cultural Communication; ECO 2010 - Principles of

Macroeconomics; ECO 2020 - Principles of Microeconomics; GEG 1000 - World Regional Geography

- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Political Science Major Core: 18 credits

The Political Science Major Core includes eighteen credits.

- PSC 1010 - American National Government **Credits: 3**
  - PSC 1020 - Comparative Politics **Credits: 3**
  - PSC 2230 - Introduction to International Relations **Credits: 3**
  - PSC 2020 - Conducting Political Analysis **Credits: 3**
- or
- PSY 2310 - Statistics for the Social and Behavioral Sciences **Credits: 3**
  - PSC 3050 - Political Theory **Credits: 3**
  - HIS 4010 - Methods of Teaching Social Science: Secondary School **Credits: 3**

## Political Science Major Electives: 18 credits

A minimum of 18 additional semester hours of political science must be completed for the Major. These 18 credit hours must be upper-division courses (3000- and 4000-level) and must be approved by the department. Generally, students may apply only 12 hours of credit in non-classroom courses toward the major as approved electives.

## Additional Content Courses for Secondary Social Studies Licensure: 27 credits

All students must complete nine Social Science courses for this concentration. Note that twelve course credits below can also satisfy General Studies requirements in these categories: Historical (3 credits); Natural and Physical Sciences (3 credits); Social and Behavioral Sciences (6 credits).

- HIS 1030 - World History to 1500 **Credits: 3**
- HIS 1040 - World History since 1500 **Credits: 3**
- HIS 1210 - American History to 1865 **Credits: 3**
- HIS 1220 - American History since 1865 **Credits: 3**

- ANT 2330 - Cross-Cultural Communication **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- GEG 1000 - World Regional Geography **Credits: 3**
- GEG 1100 - Introduction to Physical Geography **Credits: 3**

## Foundation and Methods for Secondary Education: 31 credits

The Secondary Education Licensure Program prepares candidates to teach Social Studies in grades 6-12. With the courses and field experiences below, candidates satisfy the Colorado Department of Education Teacher Quality Standards for licensure in Secondary Education. Many of the courses in this section of the degree program require admission to the MSU Denver School of Education. Please see a School of Education advisor or the MSU Denver School of Education website for details.

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- EDS 3130 - Foundations of Educational Psychology and Philosophy **Credits: 4**
- EDS 3140 - First Field Experience in Secondary Education **Credits: 1**
- EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools **Credits: 3**
- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools **Credits: 1** (60-hour field experience, taken concurrently with HIS 4010 Methods of Teaching Social Science)
- MTH 1610 - Integrated Mathematics I **Credits: 3** (Satisfies a General Studies requirement)
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

## Senior Experience: 12 credits

Student Teaching offers an essential conclusion to this degree program. Typically, students should register for 12 credits of EDS 4290 in their final semester. Students who register for only 6 credits of EDS 4290 should also register for 6 credits of CLD 4590 Culturally and Linguistically Diverse: ESL Student Teaching and Seminar.

- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 **Credits: 6,12**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Political Science Major Core	18 credits
Political Science Major Electives	18 credits
Additional Content Courses for Secondary Social Studies Licensure	27 credits
Foundation and Methods for Secondary Education	31 credits
Senior Experience	12 credits
<b>Total for the Political Science Major, B.A. with Secondary Social Studies Teacher Licensure Concentration</b>	<b>124 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

Up to 15 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.

## Department of Special Education, Early Childhood and Culturally and Linguistically Diverse Education

Thank you for your interest in the Department of Special Education, Early Childhood and Culturally and Linguistically Diverse Education! The department offers majors in special education and early childhood and also provides coursework in culturally and linguistically diverse education to students seeking to add an endorsement to a current Colorado teaching license.

There are several options for students seeking to earn a K-12 Generalist Degree in Special Education. In our undergraduate program, students may choose from one of four concentrations while they earn their K-12 generalist degree. Concentrations include Early Childhood, Elementary, Linguistically Diverse, or Secondary Education. Students who select the Secondary Concentration will also select a focus area in English, Math, Science or Social Studies. Post-baccalaureate students are able to earn K-12 licensure in special education after completing a bachelor's degree in an area of their choosing. Our Master of Arts in Teaching allows students to earn both their licensure and a master's degree after completion of a bachelor's degree. We also offer an approved **endorsement** in special education that can be added to most licensure areas and a **minor** in special education.

We offer a **major** in Early Childhood Education with both licensure and non-licensure tracks. Licensure in Early Childhood Education may also be earned by majoring in Speech, Language, Hearing Sciences. A licensure endorsement in Early Childhood will qualify you to teach pre-kindergarten through third grade in public schools in the state of Colorado. **Post-baccalaureate** students can also complete a Licensure program in ECE. All of the skills you will need to be an Early Childhood educator will be taught to you in the courses required in our ECE program. A **minor** in Early Childhood is also available, but does not lead to licensure.

The Culturally and Linguistically Diverse Education Endorsement offers an undergraduate program leading to the **endorsement** for Culturally and Linguistically Diverse Educators in the state of Colorado. The courses, field experience and student teaching are built upon current research in the field of cultural and linguistic diversity. The importance of culture and the role it plays in the education of linguistically diverse students is emphasized in the program.

Our educational mission is to develop highly effective professional educators who engage in reflective practice and scholarly activity, and who are ethical decision makers and agents of social change. Our mission is achieved through classroom instruction and clinical teaching.

### Undergraduate Programs

- [Early Childhood Education Major, B.A.](#)
- [Early Childhood Education Minor](#) (Non-Licensure)
- [Special Education Major, B.A.](#)
- [Special Education Minor](#) (Non-Licensure)
- [Bilingual Education Specialist Certificate - School Educator](#)

### Post-baccalaureate Programs

- [Early Childhood Education Post-Baccalaureate Licensure Program](#)
- [Special Education Post-Baccalaureate Licensure Program](#)
- Master of Arts in Teaching: Special Education (refer to current graduate catalog)

### Added Endorsement Programs

- [Culturally and Linguistically Diverse Education Endorsement Program](#)

### Bilingual Education Specialist Certificate - School Educator

The *Bilingual Education Specialist Certificate - School Educator* is designed for licensed educators or pre-service teachers wanting more expertise in teaching bilingual Spanish-English/English Spanish students. It is designed to meet the needs of students currently enrolled in a teacher licensure program at MSU Denver, and those who already hold a Colorado teaching license and wish to add a Bilingual Specialist credential.

### Admission and Graduation Requirements

Students seeking to complete this Certificate must apply and be accepted to the School of Education and take courses for credit. A minimum grade for courses completed as part of the certificate will be a "C" or better. No more than 40% of the credits used to satisfy certificate requirements may be transfer credits from other institutions.

### Advising and Contact Information

School of Education: CLD Co-Coordinators\*  
College of LAS, Department of Modern Languages: Chairperson\*\*  
College of LAS, Department of Chicana/o Studies: Chairperson\*\*\*

\*Loretta Chavez (CLD) - lchavez26@msudenver.edu

\*Peter Vigil (CLD) - pvigil7@msudenver.edu

\*\*Maria Akrabova (MDL) - makrabou@msudenver.edu

\*\*\*Ramon del Castillo (CHS) - delcastr@msudenver.edu

## Required Courses

- **Language and Culture Electives (Choose One) Credits: 3**
    - CHS 2000 Living Culture and Language of the Mexican and Chicano Credits: 3
    - SPA 3220 Folklore and Culture of the Mexican Southwest Credits: 3
  - **Language History Credits: 6**
    - LING 3020 History of the English Language Credits: 3
    - SPA 4310 History of the Spanish Language Credits: 3
    -
  - **Education Credits: 9**
    - CHS 3300 Education of Chicano Children Credits: 3
    - CLD 3510 Perspectives in Education for Culturally and Linguistically Diverse Learners Credits: 3
    - MDL 4960 Teaching Foreign Languages in K-12 Credits: 3
- Total Credits: 18**

## Culturally and Linguistically Diverse Education Endorsement Program

The Culturally and Linguistically Diverse (CLD) Education Endorsement is an additional credential that all licensed educators in the state of Colorado can add to their teaching license. The CLD Endorsement provides educators the skills and knowledge to support second language learners in both their English language development and their overall academic achievement. The CLD Endorsement is a K-12 credential that is officially awarded by the Colorado Department of Education, upon Institutional recommendation from MSU Denver, School of Education. A minimum of C- is required for all courses in order to successfully complete the CLD endorsement.

### Required Core Courses

- CLD 2890 - Second Language Acquisition: K-12 Educational Implications **Credits: 3**
- CLD 3290 - Literacy Development for Culturally and Linguistically Diverse Students K-12 **Credits: 3**
- CLD 3310 - Integrated Methods of Teaching English as a Second Language **Credits: 3**

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- CLD 3910 - Assessment of English Language Learners **Credits: 3**
- ANT 2330 - Cross-Cultural Communication **Credits: 3**  
OR
- COMM 3000 - Diversity and Communication in the U.S. **Credits: 3**

Subtotal: 18 credits

One of the following depending on licensure status:

#### **Additional Course for Option 1: (Pre-service Teachers)**

- CLD 4590 - Culturally and Linguistically Diverse: ESL Student Teaching and Seminar **Credits: 6**

Total for Option 1: 24 credits

#### **Additional Course for Option 2: (Licensed Educators)**

- CLD 4520 - Field Experience in Culturally and Linguistically Diverse Education **Credits: 3**

Total for Option 2: 21 credits

## Early Childhood Education Major, B.A.

[Department of Special Education, Early Childhood and Culturally and Linguistically Diverse Education](#)

Available Program Format(s): [In-Person](#)

[School of Education](#)

### About the Program

The Early Childhood Education (ECE) Major is designed to prepare students to become highly effective and culturally responsive teachers, coaches, advocates, and policy makers who promote quality care and education for young children, birth through age eight. ECE students take classes and participate in field experiences that support the knowledge, understandings, and competencies established by the National Association for the Education of Young Children (NAEYC), the Colorado Department of Education (CDE), and the Colorado Department of Human Services (CDHS) to ensure successful work with children in inclusive classrooms and diverse settings.

The Early Childhood Education Major offers a Bachelor of Arts (BA) degree with two concentration options leading to licensure or early learning specialization. Students graduating from MSU Denver with a BA degree in Early Childhood Education will meet current Director Qualifications for a Large Childcare Center.

## Early Childhood Education Concentrations

- **Licensure: Early Childhood Educator:** This option is specifically designed for those students who seek to become Colorado Department of Education (CDE) licensed teachers of children, birth through age eight. Licensure path culminates in either a 12 credit one semester student teaching experience (ECE 4390) or a 16 credit two semester residency consisting of both ECE 4415 in fall and ECE 4425 in spring.
- **Early Learning Specialization:** This option is specifically for those students who seek to become 1) early childhood teachers, directors, and coaches in centers, districts, and non-profit agencies that require Colorado Department of Human Services (CDHS) credentials but do not require CDE teacher licensure; OR 2) licensing specialists, family advocates, quality improvement raters, and policy experts for young children and families; OR 3) candidates who choose to pursue advanced studies in early childhood education, special education, social work, educational policy, child development, or other related fields.

## Student Outcomes

The Metropolitan State University of Denver (MSU Denver) ECE degree provides a strong foundation in:

- young children's development and learning;
- observation, documentation and assessment;
- effective teacher research;
- preparation to teach literacy, math, science, social studies;
- meaningful curriculum design;
- differentiation for all learners, including children with special needs, cultural and linguistic differences, and socio-economic inequality;
- trauma-informed and social justice pedagogy;
- developmentally effective approaches;
- building family and community relationships; and
- becoming an early childhood professional.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C- or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

- Please note: The majority of preschool and primary clinical experience hours occur in the mornings and afternoons in designated classrooms supervised by licensed teachers. Some courses require ECE students to work with children in unsupervised situations that may take place in the evenings or weekends.

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1610 - Integrated Mathematics I as a prerequisite to MTL 3600 - Mathematics of the Elementary Curriculum
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.
- ECE 3860 - Cultural Socialization of Children is required for the Early Childhood major and meets this requirement.

## Courses Required for the Major: 63 credits

- ECE 2100 - Introduction to Early Childhood Education **Credits: 3**
- ECE 2310 - Families and Communities: Advocacy and the Law **Credits: 3**
- ECE 2330 - Creativity and Expressive Arts for the Young Child **Credits: 3**
- ECE 2345 - Administration of Early Childhood Programs **Credits: 4**
- ECE 2360 - Infants and Toddlers I **Credits: 3**
- ECE 2370 - Curriculum for the Young Learner **Credits: 3**
- ECE 2400 - Development and Characteristics of Early Learners **Credits: 3**
- ECE 2500 - Health, Safety and Nutrition **Credits: 3**
- ECE 2600 - The Exceptional Child **Credits: 3**

- ECE 2950 - Developmentally Effective Practice (DEP) I: The Intentional Preschool Teacher **Credits:** 3
- ECE 2970 - Supporting Social Emotional Competence **Credits:** 3
- ECE 3120 - Early Literacy Development: Birth to Age 5 **Credits:** 3
- ECE 3140 - Math and Science: Birth to Age 5 **Credits:** 3
- ECE 3150 - Developmentally Effective Practice II: Planning for Beginning Readers **Credits:** 4
- ECE 3350 - Documentation and Assessment in Early Childhood Education **Credits:** 3
- ECE 3500 - Teaching with Children's Literature **Credits:** 3
- ECE 3610 - Teaching for Social Justice **Credits:** 4
- ECE 3750 - The Young Culturally and Linguistically Diverse Learner **Credits:** 3
- ECE 3860 - Cultural Socialization of Children **Credits:** 3
- EDT 3020 - Educational Technology for Early Childhood Educators **Credits:** 3

### Additional Courses for the Teacher Licensure Concentration: 16 credits

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- ECE 4000 - Differentiation of Literacy Instruction **Credits:** 3
- ECE 4340 - Math and Science: Ages 5-8 **Credits:** 3
- ECE 4370 - Developmentally Effective Practice III: Teaching in the Content Areas **Credits:** 4
- MTL 3600 - Mathematics of the Elementary Curriculum **Credits:** 3

### Additional Courses for the Early Learning Specialization: 18 credits

- Electives: 18 credits
- Early Learning concentration students should consult with an ECE advisor on specific coursework for the 18 elective hours.

### Senior Experience: 3-16 credits

- Teacher Licensure Concentration:
- ECE 4390 - Student Teaching and Seminar: Early Childhood (Preschool through Third Grade) Credits: 6,12\*
- Early Learning Specialization:
- ECE 4350 - Senior Experience in Early Childhood Education Credits: 3

\*The following two courses can be taken as a combined alternative to ECE 4390. Please speak with an advisor about this option.

- ECE 4415 - Early Childhood Residency I Credits: 7
- ECE 4425 - Early Childhood Residency II Credits: 9

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Required Major Courses	63 credits
Additional Teacher Licensure Requirements (choose this or Early Learning Specialization)	16 credits
Additional Requirements for the Early Learning Specialization (choose this or Teacher Licensure)	18 credits
Senior Experience	3-16 credits
Unrestricted Electives	0-3 credits
<b>Total for the Early Childhood Education Major, B.A.</b>	<b>Minimum of 120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

### Early Childhood Education Minor (Non-Licensure)

The Early Childhood Education Minor is designed for individuals interested in developing a foundational knowledge of the care and education of young children. Candidates should understand that this 18-semester-hour program of study fulfills MSU Denver's requirements for a minor, but it does not lead to licensure in early childhood education. A grade of "C-" or better is required for each course in this program to count toward the minor.

### ECE Required Courses

The following courses are required for the Early Childhood Education Minor:

- ECE 2100 - Introduction to Early Childhood Education **Credits:** 3
- ECE 2970 - Supporting Social Emotional Competence **Credits:** 3

**Subtotal: 6 credits**

### ECE Elective Courses

Twelve additional credits are required for the Early Childhood Education minor, 3 of which must be upper-division. Students should consult with an ECE advisor to ensure coursework is aligned with individual educational goals.

**Subtotal: 12 credits**

**Early Childhood Education Minor Total: 18 credits**

### Early Childhood Education Post-Baccalaureate Licensure Program

The Early Childhood Education (ECE) Post-baccalaureate program is designed to prepare degreed individuals to become highly effective and culturally responsive teachers and related professionals who promote quality care and education for young children. This program includes a 12-credit, one semester student teaching experience. All program courses must be passed with a C- or better.

Candidates who successfully complete the program will earn recommendation to the Colorado Department of Education for teacher licensure in Early Childhood Education (ages 0-8).

Candidates must earn admission to this program through the School of Education to complete required coursework. Visit the School of Education website for details.

## Required Courses

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- ECE 2100 - Introduction to Early Childhood Education **Credits:** 3
- ECE 2600 - The Exceptional Child **Credits:** 3
- ECE 2950 - Developmentally Effective Practice (DEP) I: The Intentional Preschool Teacher **Credits:** 3
- ECE 2970 - Supporting Social Emotional Competence **Credits:** 3
- ECE 3150 - Developmentally Effective Practice II: Planning for Beginning Readers **Credits:** 4
- ECE 3350 - Documentation and Assessment in Early Childhood Education **Credits:** 3
- ECE 3750 - The Young Culturally and Linguistically Diverse Learner **Credits:** 3
- ECE 4000 - Differentiation of Literacy Instruction **Credits:** 3
- ECE 4340 - Math and Science: Ages 5-8 **Credits:** 3
- ECE 4370 - Developmentally Effective Practice III: Teaching in the Content Areas **Credits:** 4
- ECE 4390 - Student Teaching and Seminar: Early Childhood (Preschool through Third Grade) **Credits:** 6,12
- MTH 1610 - Integrated Mathematics I **Credits:** 3
- MTL 3600 - Mathematics of the Elementary Curriculum **Credits:** 3

Grand Total For Program: 53 credit hours

## Spanish Culturally and Linguistically Diverse (CLD) Bilingual Education Specialist K-12 Added Endorsement Program

The Culturally & Linguistically Diverse (CLD) Bilingual Education Specialist K-12 Endorsement is an additional credential that all licensed educators in the state of Colorado can add to their teaching license. This endorsement has been approved by the state to be recognized as an official program and is a non-degree and non-certificate program. Completion of this program will lead to a recommendation for an added endorsement through the Colorado Department of Education (CDE). This recommendation will come from the School of Education and not the University's Office of the Registrar.

A minimum grade of a C- is required in all courses to successfully complete the program and earn a recommendation for this endorsement.

This endorsement is intended for those pre-service and in-service teachers who want to work in bilingual Spanish classrooms. Coursework will provide educators the pedagogy, skills, and knowledge to support second language learners in both their primary language (Spanish) as well as English language development.

The Oral Proficiency Interview is a requirement for specific courses in the program, please see individual course descriptions for details. In addition, a capstone project which measures reading and writing proficiency in Spanish is also required. A score of "advanced low" (grading criteria put forth by the American Council of Teachers of Foreign Language) (ACTFL) must be achieved in order to acquire this endorsement. These exams must be scheduled with the Modern Languages Department.

## Elementary, Special Education and Early Childhood Majors and Licensed Teacher Option

In addition to coursework, students must also demonstrate Spanish oral, reading, and writing proficiency. Oral proficiency will be measured by the Oral Proficiency Interview and reading and writing proficiency will be measured by the Capstone Project. Students must pass these exams with a score of "advanced low."

- CLD 2890 - Second Language Acquisition: K-12 Educational Implications **Credits:** 3
- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
- CLD 3910 - Assessment of English Language Learners **Credits:** 3
- CLD 3930 - Spanish Bilingual Education Theory and Research **Credits:** 3
- CLD 3940 - Spanish Bilingual Language and Literacy Development **Credits:** 3
- CLD 3950 - Spanish Bilingual Methods and Materials **Credits:** 3
- CLD 3951 - Spanish Culturally and Linguistically Diverse (CLD) Bilingual Education Specialist K-12 Added Endorsement Field Experience **Credits:** 1

Total: 19

## Modern Language Spanish Major Option

In addition to coursework, students must also demonstrate Spanish oral, reading, and writing proficiency. Oral proficiency will be measured by the Oral Proficiency Interview and reading and writing proficiency will be measured by the Capstone Project. Students must pass these exams with a score of "advanced low."

Because field experiences are structured differently in the School of Education (SoE) and the Modern Languages Department, there was a need to require different field experiences courses for this endorsement.

- CLD 2890 - Second Language Acquisition: K-12 Educational Implications **Credits:** 3

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits:** 3
  - CLD 3910 - Assessment of English Language Learners **Credits:** 3
  - CLD 3930 - Spanish Bilingual Education Theory and Research **Credits:** 3
  - CLD 3940 - Spanish Bilingual Language and Literacy Development **Credits:** 3
  - CLD 3950 - Spanish Bilingual Methods and Materials **Credits:** 3
  - MDL 4961 - Field Experience in Teaching Foreign Languages in K-12 **Credits:** 1
- Total: 19

## Special Education Major, B.A.

[Department of Special Education, Early Childhood and Culturally and Linguistically Diverse Education](#)

Available Program Format(s): [In-Person](#)

[School of Education](#)

### About the Program

The Special Education Major is a course of study that will prepare candidates to meet the educational needs of children and adolescents with mild to severe disabilities. The curriculum incorporates the current approved statewide standards for teachers in Colorado/Special Education Generalist, the Teacher Quality Standards, and the current Council for Exceptional Children (CEC) International Standards for the Preparation and Certification of Special Education Teachers. In addition to the special education core, all special education majors must complete a General Studies program as well as courses in elementary and secondary education. The program's clinical foundation provides teacher candidates authentic opportunities to learn and apply best practices in a variety of classrooms for students with disabilities from kindergarten through high school.

Teacher candidates graduate with appropriate preparation for special education generalist licensure K-12.

The Generalist licensure exam must be passed prior to state licensure.

### Student Outcomes

The special education curriculum is organized into sequences of course work that provide candidates with guidance in program planning. They are comprised of course clusters that candidates may take in any order; however, it is suggested that students completed all courses in a sequence before moving on to the next sequence when possible. Students are highly encouraged to meet with a faculty advisor to discuss their class schedule.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 125 semester hours are required for graduation.
- A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1610 - Integrated Mathematics I
- Arts and Humanities (6 credits)
- **Recommended:** ARTE 2060 - The Arts and Creative Thinking
- **Recommended:** ENG 2460 - Introduction to Children's Literature
- Historical (3 credits)
- **Recommended:** HIS 1210 - American History to 1865 or HIS 1220 - American History since 1865
- Natural and Physical Sciences (6 credits)
- **Recommended:** SCI 2600 - Integrated Biology and Earth Science and SCI 2610 - Integrated Physical and Chemical Sciences
- Social and Behavioral Sciences (6 credits)
- **Recommended:** GEG 1000 - World Regional Geography
- **Recommended:** PSY 1800 - Developmental Educational Psychology
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Special Education Major Content Course

### Requirements: 15 credits

All special education majors must complete the following Content Course Requirements. These courses prepare candidates to pass the elementary content exam required of all special education candidates prior to recommendation for licensure. Most of these courses will also satisfy the general studies requirements noted in the General Studies section above.

Note: Up to 12 credits from this section may be counted toward the credit total for General Studies.

- MTH 1610 - Integrated Mathematics I **Credits: 3**
- MTH 2620 - Integrated Mathematics II **Credits: 3**
- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- SCI 2600 - Integrated Biology and Earth Science **Credits: 3**
- SCI 2610 - Integrated Physical and Chemical Sciences **Credits: 3**

## Special Education Major Core:

The special education curriculum is organized into sequences of course work that provide candidates with guidance in program planning. They are comprised of course clusters that candidates may take in any order; however, it is suggested that students completed all courses in a sequence before moving on to the next sequence when possible. Students are highly encouraged to meet with a faculty advisor to discuss their class schedule.

### Sequence I Courses: 18 credits

- SLHS 2100 - Language Acquisition and Development **Credits: 3**
- SED 2200 - Diversity and Multicultural Education **Credits: 3**
- SED 2700 - Social/Emotional Development and Disorders **Credits: 3**
- SED 3100 - Communication Supports for Inclusive Classrooms **Credits: 3**
- SED 3300 - Introduction to Responsive Pedagogy **Credits: 3**
- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

### Sequence II Courses: 16 credits

- SED 3050 - Assessment and Instructional Planning **Credits: 3**
- SED 3250 - Effective Behavioral Support Systems **Credits: 3**
- SED 3625 - Instructional Methods for Supporting Students with Disabilities **Credits: 3**
- SED 3650 - Understanding Special Education Law and the IEP **Credits: 3**
- SED 3820 - Elementary Literacy: Intervention and Instruction for Students with Diverse Learning Needs **Credits: 3**
- SED 3821 - Special Education Field Experience: Teaching Students with Mild/Moderate Disabilities **Credits: 1**

### Sequence III Courses: 17 credits

- EDU 3550 - Teaching Elementary School Science and Health **Credits: 3**
- EDU 3665 - Field Experience: Teaching Science, Health and Mathematics **Credits: 1**
- EDU 3666 - Teaching Elementary School Mathematics **Credits: 3**
- SED 3550 - Introduction to Inclusive Supports and Services for Students with Significant Needs **Credits: 3**
- SED 3950 - Mathematics Instruction for Students with Disabilities **Credits: 3**
- SED 4100 - Including Students with Significant Support Needs **Credits: 3**
- SED 4101 - Teaching Students with Significant Support Needs **Credits: 1**

### Sequence IV Course: 14 credits

- EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools **Credits: 3**
- EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools **Credits: 1**
- SED 3675 - Transition Planning for Inclusive Adulthoods **Credits: 3**
- SED 4200 - Reading Disabilities and Content Instruction **Credits: 3**
- SED 4300 - Assessment and Methods for Emotional and Behavioral Disorders **Credits: 3**
- SED 4301 - Special Education Field Experience: Teaching Students with Emotional/Behavioral Disabilities **Credits: 1**

### Sequence V Courses: 12 credits

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- EDT 3010 - Integrating Educational Technology into Teaching **Credits: 3**
- SED 4440 - K-12 Practicum in Special Education **Credits: 3 or 6** (Special Education Majors are required to take SED 4440 for 6 credits.)

### Senior Experience: 12 credits

#### Sequence VI Courses (Student Teaching)

Candidates must take 12 credits of student teaching, which may include either 12 credit hours of Special Education student teaching or 6 hours of Special Education and 6 hours of Elementary. Students who simultaneously complete the Culturally and Linguistically Diverse (CLD) Education endorsement will take 6 hours of special education and 6 hours of CLD student teaching. Students must consult with their advisor to identify the appropriate courses.

- CLD 4590 - Culturally and Linguistically Diverse: ESL Student Teaching and Seminar **Credits: 6**
- EDU 4190 - Elementary Student Teaching and Seminar: K-6 **Credits: 6,12**
- SED 4490 - Special Education Student Teaching and Seminar **Credits: 6 or 12**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Content Course Requirements	15 credits
Major Course Requirements (Sequence I-V)	77 credits
Senior Experience	12 credits
<b>Total for the Special Education Major, B.A.</b>	<b>125 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

**Up to 12 of the 33 General Studies credits in this program may be fulfilled through requirements for the degree.**

### Special Education Minor (Non-Licensure)

The minor in Special Education is designed to prepare teachers, physical educators, counselors, and professionals to work with individuals with exceptional needs in educational, therapeutic, and recreational settings. Candidates should understand that this 18 hour course of study fulfills MSU Denver's requirements for a minor, but it does not lead to licensure. A grade of C- or better is required for each course in this program to count toward the minor. Admission to the School of Education will be required to complete this minor. Visit the School of Education website for more information.

### Special Education Minor Courses:

- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**

**PLUS a minimum of 15 hours selected in consultation with a Special Education advisor, from the following courses:**

- SED 2200 - Diversity and Multicultural Education **Credits: 3**
- SED 2700 - Social/Emotional Development and Disorders **Credits: 3**
- SED 3050 - Assessment and Instructional Planning **Credits: 3**
- SED 3250 - Effective Behavioral Support Systems **Credits: 3**
- SED 3550 - Introduction to Inclusive Supports and Services for Students with Significant Needs **Credits: 3**
- SED 3625 - Instructional Methods for Supporting Students with Disabilities **Credits: 3**
- SED 3650 - Understanding Special Education Law and the IEP **Credits: 3**
- SED 3675 - Transition Planning for Inclusive Adulthoods **Credits: 3**
- SED 3820 - Elementary Literacy: Intervention and Instruction for Students with Diverse Learning Needs **Credits: 3**
- SED 3950 - Mathematics Instruction for Students with Disabilities **Credits: 3**

- SED 4200 - Reading Disabilities and Content Instruction **Credits: 3**

- SED 4300 - Assessment and Methods for Emotional and Behavioral Disorders **Credits: 3**

**Total for Minor: 18**

### Special Education Post-Baccalaureate Licensure Program

MSU Denver's post-baccalaureate licensure program in Special Education provides candidates with a case-based curriculum designed to prepare candidates to meet the needs of children and adolescents with mild to severe disabilities. This professional education sequence, leading to a Special Education Generalist license, provides content that emphasizes developing effective decision-making in diverse contexts. Candidates who do not have a baccalaureate degree should pursue the Special Education undergraduate major. All candidates who enroll in the post-baccalaureate licensure program for Special Education Generalist must have an education psychology and math content prerequisite course. Candidates must see their special education advisors at least twice a year for information regarding program planning. The Generalist licensure exam must be passed prior to state licensure. All courses must have a grade of C- or better in order to count toward the Special Education Post-Bac program.

### General Course Requirements: 6 credits

- PSY 1800 - Developmental Educational Psychology **Credits: 3**
- MTH 1610 - Integrated Mathematics I **Credits: 3**

### Sequence I Courses: 6 credits

- SED 3600 - Exceptional Learners in the Classroom **Credits: 3**
- SED 3650 - Understanding Special Education Law and the IEP **Credits: 3**

### Sequence II Courses: 15 credits

- CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners **Credits: 3**
- SED 3675 - Transition Planning for Inclusive Adulthoods **Credits: 3**
- SED 3750 - Assessment, Methods, and Assistive Technology for Severe Disabilities **Credits: 3**
- SED 3820 - Elementary Literacy: Intervention and Instruction for Students with Diverse Learning Needs **Credits: 3**
- SED 3950 - Mathematics Instruction for Students with Disabilities **Credits: 3**

### Sequence III Courses: 12 credits

- SED 3050 - Assessment and Instructional Planning **Credits: 3**

- SED 4200 - Reading Disabilities and Content Instruction **Credits:** 3
- SED 3250 - Effective Behavioral Support Systems **Credits:** 3
- SED 4300 - Assessment and Methods for Emotional and Behavioral Disorders **Credits:** 3

### Sequence IV Course: 3 credits

- SED 4440 - K-12 Practicum in Special Education **Credits:** 3 or 6

### Sequence V Courses: 12 credits

- SED 4490 - Special Education Student Teaching and Seminar **Credits:** 6 or 12

### Totals

General Studies Courses: 6 credits  
Licensure Total: 51 credits  
Grand Total: 57 credits

# School of Hospitality

The School of Hospitality is uniquely situated in the center of downtown Denver's hospitality industry.

Our programs are specifically designed to give you innovative leadership skills, arm you with the latest technology, and effectively educate you. When you graduate from our program, you can be confident you will be well prepared to start your career in the hospitality industry.

Our program is ever-changing to meet the student's needs. We are continuing to add online courses, as well as weekend and night courses. Our faculty have years of actual experience and they continue to be an active part of the hospitality industry.

Our mission is to cultivate a community of learning that prepares students for leadership roles, addressing local and global opportunities in the Hospitality Industry.

Our shared values reflect a foundation of respect for the leadership skills necessary for our graduates to provide a quality hospitality experience for customers, balanced with respect for ourselves, our resources, and the effect of our decisions on the environment, our diverse teams, and the community to which we serve.

Our vision is to provide Relevant, Open-minded, Global, Unconventional Education. Go ROGUE with us.

## Rita and Navin Dimond Department of Hotel Management

**The Rita and Navin Dimond Department of Hotel Management prepare** students for operations and management positions in various segments of the hospitality industry. Named for the founders and owners of Stonebridge Companies, one of the nation's leading development and hospitality management companies, the Rita and Navin Dimond Department of Hotel Management reflects the weight of the Dimonds' esteemed reputation through a shared commitment to excellence and a passion for fostering future hospitality leaders.

### Beverage Management Minor

A grade of "C" or better is required for courses in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.

### Required Courses

- BVG 3010 - Beers of the World **Credits:** 3
- BVG 3613 - Wine Fundamentals **Credits:** 3
- BVG 3683 - Beer and Spirits **Credits:** 3
- BVG 3950 - Beverage Promotion **Credits:** 3

Select three of the following courses (pre-requisites may be required):

- BVG 2015 - Beverage Fundamentals **Credits:** 3
- BVG 3220 - Beer and Food **Credits:** 3 \*
- BVG 3750 - Alcohol Beverage Law **Credits:** 3 \*
- BVG 4010 - Beer Styles and Service **Credits:** 3 \*
- BVG 4613 - Wines of the Old World **Credits:** 3

- BVG 4623 - Wines of the New World **Credits:** 3
- BVG 4633 - Wine and Food **Credits:** 3 \*
- BVG 4950 - Enology: The Making of Wine **Credits:** 3 \*

\*Course requires prerequisites. Please consult current MSU Denver catalog.

**Total for Minor: 21 credits**

## Brewery Operations Major, B.S.

[School of Hospitality](#)

[Rita and Navin Dimond Department of Hotel Management](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

Program Slogan: "Crafting Leaders in the Beer Industry!"

The Bachelor of Science in Brewery Operations is designed for students and professionals looking to break into or further their career within the competitive beer and brewing industry. Created for those wishing to have baccalaureate level training and for those looking to gain vital credentials and certifications, this degree will prepare them for the challenges they will face once they are employed in the beer world. Brewery professionals are involved in the operations, management, creation and analysis of beer in a brewery setting. The Bachelor of Science degree program in Brewery Operations provides a broad foundation in: 1) practical understanding and implementation of the brewing process, equipment, maintenance, and safety within the physical plant as well as through understanding and the ingredients of beer, 2) chemical and biological analysis and improvement of beer, 3) brewery management and operations, 4) serving and hospitality in the beer world, 5) packaging techniques, 6) draft quality and system design, 7) professional applications of theoretical knowledge. The program is one of the only bachelor degrees related specifically to beer and the brewing industry in the world.

It is particularly unique because it is an expansive course of study based out of the School of Hospitality, Events, and Tourism and is not exclusively a food science degree.

### Student Outcomes

- Develop a range of leadership skills and abilities to succeed in the beer industry, including resourceful and ethical decision making, team interaction skills, and critical & reflective thinking skills within the larger hospitality industry.
- Implement beer production and distribution principles within the increasingly diverse beer industry environment.
- Formulate and apply strategies and techniques to enhance abilities within the scientific and technical realm of the brewing industry.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- **Recommended:** MTH 1109 - College Algebra Stretch, Part II or MTH 1110 - College Algebra for Calculus or MTH 1111 - College Algebra for Calculus with Laboratory or MTH 1112 - College Algebra Through Modeling or MTH 1210 - Introduction to Statistics
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- **Recommended:** Many courses in the Science requirement for the degree can fulfill this requirement.
- Social and Behavioral Sciences (6 credits)
- **Recommended:** ECO 2010 - Principles of Macroeconomics and ECO 2020 - Principles of Microeconomics (required in the major)
- Global Diversity (0 or 3 credits\*\*)
- **Recommended:** GEG 1910 - Global Water Concerns

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

## Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

## Science Courses: 23 credits

- BIO 1080 - General Biology I **Credits: 3**
- BIO 1081 - General Biology II **Credits: 3**
- BIO 1090 - General Biology Laboratory I **Credits: 1**
- BIO 1091 - General Biology Laboratory II **Credits: 1**
- BIO 2400 - General Microbiology **Credits: 5**
- CHE 1100 - Principles of Chemistry **Credits: 4**
- CHE 1150 - Principles of Chemistry Laboratory **Credits: 1**
- CHE 2100 - Introduction to Organic and Biological Chemistry **Credits: 4**
- CHE 2150 - Introduction to Organic and Biological Chemistry Laboratory **Credits: 1**

## Major Core Courses: 42 credits

- ACC 3120 - Financial Leadership for Hospitality **Credits: 3**
- BVG 2350 - Brewery Mechanics **Credits: 3**
- BVG 3010 - Beers of the World **Credits: 3**
- BVG 3350 - Brewery Operations **Credits: 3**
- BVG 3750 - Alcohol Beverage Law **Credits: 3**
- BVG 3810 - Sensory Quality Analysis of Beer **Credits: 3**
- BVG 4010 - Beer Styles and Service **Credits: 3**
- BVG 4220 - Brewing Fermentation **Credits: 3**
- BVG 4350 - Brewing Science **Credits: 3**
- BVG 4810 - Brewing Quality Analysis **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- HLDR 4000 - Cost Control for Hospitality and Tourism **Credits: 3**
- PHI 3360 - Business Ethics **Credits: 3**

## Major Electives: 9 credits

Select 3 courses

- BVG 3220 - Beer and Food **Credits: 3**
- BVG 3500 - Bar and Beverage Operations **Credits: 3**
- BVG 3683 - Beer and Spirits **Credits: 3**
- BVG 3950 - Beverage Promotion **Credits: 3**
- HLDR 0370 - Study Abroad in Hospitality **Credits: 0**
- HLDR 3200 - Talent Leadership **Credits: 3**
- HLDR 3300 - Hospitality Marketing and Sales **Credits: 3**
- HLDR 3400 - Facilities Operations **Credits: 3**
- HLDR 3600 - Organizational Leadership for Hospitality **Credits: 3**
- HLDR 3980 - Internship in Hospitality **Credits: 3**
- HLDR 4400 - Strategic Management for Hospitality **Credits: 3**

## Senior Experience: 3 credits

- BVG 4850 - Applied Brewing Operations **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Science Courses	23 credits
Major Requirements	42 credits
Major Electives	9 credits
Senior Experience	3 credits
Unrestricted Electives	7-25 credits
<b>Total Credits for the Brewery Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Event and Meeting Management Major, B.S.

[Rita and Navin Dimond Department of Hotel Management](#)

[School of Hospitality](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Bachelor of Science in Event and Meeting Management is designed for students seeking careers as event and meeting professionals. MSU Denver is one of only four programs in the country to offer a standalone baccalaureate degree in event and meeting management. The curriculum is based on the Meeting and Business Event Competency Standards (MBECS) by Meeting Professionals International. Meeting and Event Management is recognized by the U.S. Department of Labor as a specific business sector, distinct from Lodging and Tourism. This degree prepares students for a variety of career paths within this fast-growing industry. The in-depth course of study examines the interrelated industry components of corporate events, conventions, trade shows, special events, and other specialty areas not routinely taught in other programs. Our highly experienced faculty are certified in teaching various areas of event and meeting management and maintain active participation in industry associations, advisory board, and committees.

### Student Outcomes

- Evaluate quality project management specific to diverse hospitality and event industries
- Apply business concepts relevant to hospitality and event management
- Employ skills relevant to the operational areas of hospitality and event management
- Demonstrate effective communication with global hospitality and event industries.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Exploratory Courses: 18 credits

All 1000 or 2000 level courses

- EVT 2020 - Event Project Planning **Credits: 3**
- HLDR 1000 - Introduction to Hospitality **Credits: 3**
- HLDR 1100 - Colorado Tourism and Recreation **Credits: 3**
- HLDR 2000 - Career and Leadership Development for Hospitality **Credits: 3**

- HLDR 2100 - Event Planning for the Professional **Credits: 3**
- HLDR 2200 - Quality Service Leadership **Credits: 3**

[Rita and Navin Dimond Department of Hotel Management](#)

Available Program  
Format(s): [In-Person](#)

[School of Hospitality](#)

## Major Core Courses: 40 credits

All 3000 or 4000 level courses

- ACC 3120 - Financial Leadership for Hospitality **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- EVT 3000 - Event Catering Strategies **Credits: 3**
- EVT 3010 - Event Support Systems **Credits: 3**
- EVT 3100 - Corporate Meetings **Credits: 3**
- EVT 3200 - Conventions and Trade Shows **Credits: 3**
- EVT 4020 - Event and Meeting Contracting **Credits: 3**
- EVT 4100 - Special Event Production **Credits: 3**
- EVT 4200 - Global Meetings and Events **Credits: 3**
- HLDR 3200 - Talent Leadership **Credits: 3**
- HLDR 3250 - Managerial Accounting for Hospitality **Credits: 3**
- HLDR 3300 - Hospitality Marketing and Sales **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**

## Select One: 3 credits

- HLDR 0370 - Study Abroad in Hospitality **Credits: 0**
- HLDR 3800 - Servant Leadership in Hospitality **Credits: 3**
- HLDR 3980 - Internship in Hospitality **Credits: 3**

## Senior Experience: 3 credits

- EVT 4030 - Advanced Planning and Risk Management **Credits: 3**

## Summary of Requirements

General Studies Requirement	33 credits
Multicultural Requirement	0-3 credits
Exploratory Courses	18 credits
Major Requirements	40 credits
Select One Requirement	3 credits
Senior Experience	3 credits
Unrestricted Electives	20-29 credits
<b>Total for the Event and Meeting Management Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.

Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Hospitality Leadership Major, B.S.

## About the Program

Nestled in the heart of downtown Denver, the School of Hospitality is the epicenter of exceptional education through relevant, active participation in our unique, world-class facilities. Students majoring in Hospitality Leadership engage in cutting-edge learning opportunities to hone their leadership skills. Hospitality - hotels - restaurants - tourism - events - brewing - outdoor recreation - we CRUSH IT!

## Student Outcomes

- Develop a range of leadership skills and abilities for the hospitality industry, including responsible decision making, personal accountability, critical and reflective thinking skills.
- Implement leadership principles and styles, group dynamics, and effective teamwork within a diverse hospitality environment.
- Formulate strategies to enhance awareness and commitment towards effective citizenship and social responsibility.

## General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

## Program Requirements

- A total of 120 semester hours are required for graduation.
- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- A minor is not required for this program.
- Students must present verification of 600 hours of on-the-job experience. These hours may be secured through paid job experience, cooperative education, internships or a combination of the three
- Students must present Adult CPR certification

## General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)

- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Exploratory Courses: 18 credits

1000 or 2000 level courses

- HLDR 1000 - Introduction to Hospitality **Credits: 3**
- HLDR 1100 - Colorado Tourism and Recreation **Credits: 3**
- HLDR 2000 - Career and Leadership Development for Hospitality **Credits: 3**
- HLDR 2100 - Event Planning for the Professional **Credits: 3**
- HLDR 2200 - Quality Service Leadership **Credits: 3**
- RST 1200 - Basic Cooking Skills **Credits: 3**

### Major Core Courses: 24 credits

3000 or 4000 level courses

- ACC 3120 - Financial Leadership for Hospitality **Credits: 3**
- HLDR 3200 - Talent Leadership **Credits: 3**
- HLDR 3300 - Hospitality Marketing and Sales **Credits: 3**
- HLDR 3400 - Facilities Operations **Credits: 3**
- HLDR 3600 - Organizational Leadership for Hospitality **Credits: 3**
- HLDR 4000 - Cost Control for Hospitality and Tourism **Credits: 3**
- HLDR 4100 - Hospitality Law and Risk Management **Credits: 3**
- HLDR 4400 - Strategic Management for Hospitality **Credits: 3**

### Course Selection: 3 credits

Students need to pick one course:

- HLDR 0370 - Study Abroad in Hospitality **Credits: 0**
- HLDR 3800 - Servant Leadership in Hospitality **Credits: 3**
- HLDR 3980 - Internship in Hospitality **Credits: 3**

### No Concentration Option: 15 credits

- Students would take 5 courses (15 credits) in the School of Hospitality curriculum (BVG, EVT, HLDR, HTE, HTL, RECR, RST, RTM, TTM, UA).

### Food and Beverage Concentration: 21 credits

- BVG 3500 - Bar and Beverage Operations **Credits: 3**
- RST 3000 - Taste the World: A Global Sensory Experience **Credits: 3**
- RST 4100 - Applied Food and Beverage Operations **Credits: 3**
- RST XXXX Open RST elective (3 credits)
- RST XXXX Open RST elective (3 credits)
- BVG XXXX Open BVG elective (3 credits)
- UA XXXX Open UA elective (3 credits)

### Recreation and Tourism Management Concentration: 18 credits

- RTM 2000 - Commercial Recreation and Tourism **Credits: 3**
- RTM 4000 - Recreation and Tourism Policy and Planning **Credits: 3**
- TTM 3000 - Sustainable Tourism and Recreation **Credits: 3**
- 9 credits of elective courses

### Senior Experience: 3 credits

- HLDR 4500 - Applied Leadership in Hospitality **Credits: 3**

### Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Exploratory Courses	18 credits
Major Core Courses	24 credits
Select One Requirement	3 credits
No Concentration Option	15 credits
Food and Beverage Concentration Option	21 credits
Recreation and Tourism Management Concentration Option	18 credits
Unrestricted Electives	15-30 credits
Senior Experience	3 credits
<b>Total for the Hospitality Leadership Major, B.S.</b>	<b>120 credits</b>

Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree. Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.

## Hotel Management Major, B.S.

[Rita and Navin Dimond Department  
of Hotel Management](#)

[School of Hospitality](#)

Available Program  
Format(s): [In-Person](#)

### About the Program

The Bachelor of Science Degree in Hotel Management offers a diverse approach to meeting the educational needs of the lodging industry professional. Students are immersed in a rigorous academic environment that not only encourages both critical thinking at the management theory level, as well as applying such theory to formulate solutions to complex management problems. This diverse approach allows students to develop skill sets in human resources, property management, legal issues, marketing, accounting, revenue management, and strategic management, among others.

As part of this application-based approach to learning, the Marriott Springhill Suites Hotel provides a 'real-world' environment in which students delve into experiential learning modules. Here, students are given a unique opportunity to directly observe a major hotel's daily operation in several key departments.

Students are also given the opportunity to apply their accumulated learned knowledge in a senior-level capstone course that allows them to manage a lodging property in a real-time simulated environment. This educational approach ensures that our graduates enter the workforce with the specialized, well-rounded educational experience desired by the industry.

### Student Outcomes

- Possess a broad range of competencies in general lodging operations,
- Be able to confidently enter the lodging industry ready to make an impact
- Demonstrate sound management practices built upon a foundation of ethical standards and values.

### General Degree Requirements

To earn a degree, students must satisfy all requirements in each of the four areas below, in addition to their individual major requirements.

- [Degree and Certificate Requirements](#)
- [General Studies Requirements](#)
- [Multicultural Graduation Requirements](#)
- [Senior Experience Graduation Requirements](#)

### Program Requirements

- A total of 120 semester hours are required for graduation.

- A grade of C or better is required for each course in this program to count toward the bachelor's degree. Students should note that programs differ in the minimum grade required.
- Maintain a grade point average of 2.5.
- A minor is not required for this program.

### General Studies Requirements: 33 credits

Students should consult the General Studies Requirements for a list of courses that fulfill the General Studies Requirements for degree completion.

- Written Communication (6 credits)
- Oral Communication (3 credits)
- Quantitative Literacy (3 credits)
- Arts and Humanities (6 credits)
- Historical (3 credits)
- Natural and Physical Sciences (6 credits)
- Social and Behavioral Sciences (6 credits)
- Global Diversity (0 or 3 credits\*\*)

*\*\* Students will fulfill the global diversity requirement by taking an approved course within one of the following categories: arts and humanities; historical; natural and physical sciences; or social and behavioral sciences.*

### Multicultural Requirement: 0 or 3 credits

- Students should consult the Multicultural Graduation Requirements for a list of courses that fulfill the Multicultural Requirement for degree completion.
- Many programs include courses that meet this requirement. Students should consult with their advisor to determine what program courses may fulfill this requirement.

### Exploratory Courses: 18 credits

- HLDR 1000 - Introduction to Hospitality **Credits: 3**
- HLDR 1100 - Colorado Tourism and Recreation **Credits: 3**
- HLDR 2000 - Career and Leadership Development for Hospitality **Credits: 3**
- HLDR 2100 - Event Planning for the Professional **Credits: 3**
- HLDR 2200 - Quality Service Leadership **Credits: 3**
- HTL 1500 - Resort Operations **Credits: 3**

### Major Core Courses: 43 credits

- ACC 3120 - Financial Leadership for Hospitality **Credits: 3**
- BVG 3500 - Bar and Beverage Operations **Credits: 3**
- ECO 2010 - Principles of Macroeconomics **Credits: 3**
- ECO 2020 - Principles of Microeconomics **Credits: 3**
- HLDR 3200 - Talent Leadership **Credits: 3**
- HLDR 3250 - Managerial Accounting for Hospitality **Credits: 3**
- HLDR 3300 - Hospitality Marketing and Sales **Credits: 3**

- HLDR 3400 - Facilities Operations **Credits: 3**
- HLDR 3600 - Organizational Leadership for Hospitality **Credits: 3**
- HLDR 3850 - Capital Management for Hospitality **Credits: 3**
- HLDR 4100 - Hospitality Law and Risk Management **Credits: 3**
- HTL 4100 - Revenue Management **Credits: 3**
- HTL 4200 - Lodging Regulatory Environment **Credits: 3**
- MTH 1210 - Introduction to Statistics **Credits: 4**

## Major Electives: 6 credits

Select two courses from the below list:

- HLDR 0370 - Study Abroad in Hospitality **Credits: 0**
- HLDR 3800 - Servant Leadership in Hospitality **Credits: 3**
- HLDR 3980 - Internship in Hospitality **Credits: 3**
- HTL 2600 - Casino and Gaming Management **Credits: 3**
- HTL 4000 - Current Trends in Lodging Industry **Credits: 3**

## Senior Experience: 3 credits

- HTL 4500 - Applied Hotel Management **Credits: 3**

## Summary of Requirements

General Studies Requirements	33 credits
Multicultural Requirement	0-3 credits
Exploratory Courses	18 credits
Major Requirements	43 credits
Major Electives	6 credits
Senior Experience	3 credits
Unrestricted Electives	14-26 credits
<b>Total for the Hotel Management Major, B.S.</b>	<b>120 credits</b>

**Required courses for the major may also count for General Studies and Multicultural requirements, so the total credits listed may be greater than the number required to complete the degree.**

**Therefore, it is important that you work with your advisor to make sure you are meeting requirements for your degree.**

## Outdoor Recreation and Adventure Tourism Certificate

The certificate in Outdoor Recreation and Adventure Tourism focuses on providing students with scholarly instruction and practical experiences as leaders in the outdoor and adventure domain. The program will provide an integration of theory and hands-on courses covering such topics as outdoor skills and instruction, environmental justice, risk management, and social justice, to name a few.

## Courses Required for Outdoor Leadership Certificate:

- RTM 2000 - Commercial Recreation and Tourism **Credits: 3**
- RTM 3100 - Adventure Instruction **Credits: 3**
- RTM 4000 - Recreation and Tourism Policy and Planning **Credits: 3**
- TTM 3000 - Sustainable Tourism and Recreation **Credits: 3**
- TTM 4100 - Adventure Travel **Credits: 3**
- TTM 4200 - Ecotourism **Credits: 3**

**Total for Outdoor Recreation and Adventure Tourism: 18 credits**

## Sociology of Tourism Certificate

The Sociology of Tourism certificate program provides a solid foundation in the development of core skills in tourism, as well as a focus on applied knowledge in the field of sociology as it relates to tourism. The curriculum builds on providing students with higher-level skills to assume first-line, supervisory and management positions, in the evolving, fast-paced, and rewarding world of the hospitality and tourism industry. Sociology of tourism studies the development of community-based tourism that carries with it a high level of bottom-up community support and participation. Students should consult with an advisor for assistance with certificate planning for specific careers after graduation. This is a certificate program, available to current students, post-baccalaureate students, or anyone in related industries seeking additional skills and training for career advancement. A grade of "C" or better is required for each course in this program to count toward the awarded certificate.

## Required Courses

- SOC 1010 - People, Power, and Progress **Credits: 3**
- SOC 1600 - Tourism and Society **Credits: 3**  
or
- TTM 1600 - Tourism and Society **Credits: 3**
- TTM 3000 - Sustainable Tourism and Recreation **Credits: 3**
- TTM 3200 - Itinerary Design **Credits: 3**

## Elective Courses

Select two of the courses below:

- SOC 1020 - Globalization--The Transformation of Social Worlds **Credits: 3**
- SOC 3080 - Social Action Through Art **Credits: 3**
- SOC 3730 - Media and Society **Credits: 3**
- TTM 3800 - Cruise Tourism **Credits: 3**
- TTM 4100 - Adventure Travel **Credits: 3**
- TTM 4200 - Ecotourism **Credits: 3**

**Total: 18 credits**

# Course Descriptions

This section of the *Catalog* includes course descriptions, listed alphabetically by discipline. The descriptions provide information on course numbers, titles, the level of instruction, credit, course sequence, content, and prerequisites as shown in the following example:

*CHE 2100 Introduction to Organic and Biological Chemistry*

*Credits: 5*

*Prerequisite: CHE 1100*

*Description: A study of the elements of organic and biological chemistry. This course satisfies requirements for nursing programs and other fields requiring a survey of organic and biological chemistry.*

The first two to four letters, called the course subject code, represent the area of study or discipline, e.g., CHE represents chemistry. The course number follows the course subject code, e.g., 2100. The first digit in a four-digit course number designates the level of instruction. Only courses numbered 1000 or above will be included in credits toward a degree. Courses with numbers up to and including 1999 are primarily for freshmen, 2000 through 2999 primarily for sophomores, 3000 through 3999 primarily for juniors, and 4000 through 4999 primarily for seniors. In general, students should not take courses above the level of their class (based upon semester hours earned), but they may do so at one level above if they have the specified prerequisites. In special cases, students may be permitted to take courses more than one level above that designated for their class if they obtain the permission of their advisor and of the faculty member teaching the course and if they meet the prerequisite requirements. Course descriptions provide a summary of the content of the course. If a prerequisite must be met before a student can register for a course, this information is listed above the course description. Attributes, such as Multicultural, General Studies, or Guaranteed Transfer, are listed after the course description. A list of courses being offered in a given semester, instructors, class meeting times, and locations is described in the Class Schedule.

## Types of Courses

- **Regular courses** appear in this section of the University Catalog and are offered on a regular basis.
- **Independent study courses** provide students the opportunity to pursue in-depth study of a topic of special interest. Independent study courses are specified as 498\_ and include an alpha character in the course number. Independent study courses are published in the Class Schedule.
- **Special topics or omnibus courses** are temporary courses that are not listed in the Catalog. They may be used to pilot-test a course, present a special topic, or provide a unique, experiential-learning opportunity. Omnibus courses use a specified range of course numbers: 190\_, 290\_, 390\_, 490\_ and include an alpha character in the course number. Omnibus courses are published in the Class Schedule.
- **Variable topics courses** allow courses of varying titles under an overall theme or “umbrella” course. Variable

topic courses include an alpha character in the course number and are published in the Class Schedule.

## Accounting

### ACC 1010 - Fundamentals of Accounting

**Credits:** 3

**Prerequisite(s):** ENG 1010 or ENG 1009 and General Studies Requirements for Quantitative Literacy

**Description:** This course introduces the basic concepts of financial, managerial and tax accounting needed to promote entrepreneurial efforts. The content focuses on accepted accounting methods and specific organizational skills required for business owners to record, analyze and present their financial information.

*Note: Students who have previously taken ACC 1010 - Accounting for Non Business Majors may not also receive credit for ACC 1010 - Fundamentals of Accounting.*

### ACC 1985 - Introduction to Business Careers Internship

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.

*Note: Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** BNK 1985, CIS 1985, ECO 1985, FIN 1985, MGT 1985, MKT 1985

### ACC 2010 - Principles of Accounting I

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; and Completion of General Studies Quantitative Literacy Requirement

**Description:** This course introduces students to the role of accounting in society. The course focuses on financial accounting and reporting as tools to aid external decision making, financial analysis, and interpretation.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 2012

### ACC 2020 - Principles of Accounting II

**Credits:** 3

**Prerequisite(s):** ACC 2010 with a grade of "C-" or better; ENG 1020; Completion of General Studies requirements in Oral Communication and Quantitative Literacy

**Description:** This course introduces students to the role of managerial accounting information in business. The course focuses on cost controls, budgeting and preparing relevant financial information for decision making.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 2021

### **ACC 3090 - Income Tax I**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or 1310 or 1400; ACC 2010 and PSC 1010 with a grade of C or better; and junior standing or higher

**Description:** This course is a study of federal income tax laws with an emphasis on personal income taxation, including such topics as gross income, gains and losses and deductions.

### **ACC 3100 - Income Tax II**

**Credits:** 3

**Prerequisite(s):** ACC 2020 and ACC 3090 with a grade of C or better

**Description:** This course is a continuation of ACC 3090 with a comparative focus on the taxation of organizational tax entities, including partnerships, corporations and S-corporations.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3102

### **ACC 3110 - Volunteer Income Tax Assistance (VITA)**

**Credits:** 3

**Prerequisite(s):** ACC 3090 with a C or better

**Description:** Students will have primary responsibility for operating a VITA site as a tax service. Students will prepare both federal and State of Colorado income tax returns. The focus will be on preparing returns for the elderly, disabled, foreign students and low income individuals. This course contains a service learning component.

*Note: Some sections of this course may be taught as Service Learning.*

### **ACC 3120 - Financial Leadership for Hospitality**

**Credits:** 3

**Description:** This course introduces students to basic accounting and financial principles related to the hospitality and tourism industry, with an emphasis on examining relevant data for informed leadership decisions. Students will improve their oral and written communication skills using financial terminology, data analysis, and ethical decision making.

### **ACC 3200 - Governmental Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3510 with a grade of C or better

**Description:** This course is a study of generally accepted accounting principles and financial reporting used by state and local governmental units. This includes achieving an understanding of fund accounting and inclusion of budgets within the accounting systems. A study of accounting and financial reporting of colleges, hospitals, voluntary health and welfare organizations, and other not-for-profit institutions is included.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3204

### **ACC 3300 - Accounting Information Systems**

**Credits:** 3

**Prerequisite(s):** ACC 2010 and CIS 2010 with grades of C or better; at least junior standing

**Description:** This course is a study of principles and current issues relating to the design, implementation, control and regulation of accounting information systems. Tools and technologies related to accounting systems and the place of accounting systems within the modern enterprise provide a focus for the course, which includes an introduction to accounting-related information technology (IT) audit issues.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3305

### **ACC 3400 - Cost Accounting**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1310 or MTH 1400; ACC 2020 with a grade of C or better

**Description:** This course includes coverage of cost behavior relationships, job order and process costing systems, overhead allocation methods, budgeting and budget variance analysis, cost-volume profit relationships, and cost prediction for supporting management decision-making in service, sales, and manufacturing organizations. Computer applications are an integral part of this course.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3401

### **ACC 3510 - Intermediate Accounting I**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1310 or MTH 1400; ACC 2010 with a grade of C or better; and junior standing

**Description:** This is the first course in Intermediate Accounting. The Intermediate Accounting courses are designed to teach the concepts and procedures underlying the measurement and reporting of financial information.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3511

### **ACC 3520 - Intermediate Accounting II**

**Credits:** 3

**Prerequisite(s):** A grade of "C" or better in ACC 3510

**Description:** This course is a continuation of ACC 3510 and covers an in-depth study of basic accounting principles with an emphasis on stockholders' equity and special problems.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3520

### **ACC 3750 - International Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3510 or FIN 3100 with a grade of C or better

**Description:** This course is a study of the impact on financial reporting and managerial decision-making due to the similarities and differences in accounting standards throughout the world. This course examines the history and development of accounting standards and

reviews current topics which affect the comparison of global financial reporting.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 3750

### **ACC 3980 - Internship in Accounting**

**Credits:** 1-15

**Prerequisite(s):** Major in accounting; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **ACC 4200 - Auditing and Attestation**

**Credits:** 3

**Prerequisite(s):** ACC 3510 with a grade of C or better

**Prerequisite(s) or Corequisite(s):** ACC 3520

**Description:** This course is an introduction to contemporary theory and practice of auditing and attestation. The course will acquaint the students with Generally Accepted Auditing and Attestation Standards (GAAS), professional ethics, internal control, objectives and procedures for audits and attestation, risk assessment, audit and attestation reports, legal liability, research methodology, and corporate governance. Concepts included are professionalism, independence, evidence, risk, control, and enhancement of reliability and relevance properties of attester's services.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 4200

### **ACC 4440 - Accounting Ethics and Professionalism**

**Credits:** 3

**Prerequisite(s):** ACC 3510 and ACC 3090 with grades of "C" or better

**Description:** This course examines professional ethics for accountants from both a philosophical and business perspective. Moral development, ethical reasoning, and ethical decision-making provide a framework for examining the importance of ethics in the accounting profession. Professional guidance on ethics in accounting will also be examined, including the AICPA Code of Professional Conduct, the Colorado Board of Accountancy Statutes, Rules, and Regulations, the Sarbanes-Oxley Act, and the codes of conduct for other professional accounting organizations.

### **ACC 4510 - Advanced Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3520 with a C or better

**Description:** This course includes coverage of reporting requirements for partnerships, SEC-regulated companies, not-for-profit organizations, and financially distressed entities, as well as information disclosure requirements for state and local governments, international harmonization of accounting standards, and the possible conversion to International Accounting Standards in the U.S.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** HON 4510

### **ACC 4520 - Mergers and Acquisitions**

**Credits:** 3

**Prerequisite(s):** ACC 3520 or FIN 4500

**Description:** This course is a comprehensive study of mergers and acquisitions focusing on the preparation of consolidated financial statements. Complexities inherent in consolidating investments in foreign subsidiaries are addressed in depth. Additional topics include: variable interest entities; accounting for foreign currency transactions, hedging transactions, and equity method investments; reporting disaggregated information; and interim reporting requirements.

### **ACC 4700 - Internal Auditing**

**Credits:** 3

**Prerequisite(s):** ACC 3510 with a grade of "C" or better

**Description:** This course introduces students to the internal audit profession and the internal audit process. Topics include the Institute of Internal Auditor's International Professional Practices Framework (IPPF), risk, corporate governance, internal control, audit methodologies, and conducting internal audit engagements. Students seeking Certified Public Accountant (CPA) licensure are required by the Colorado State Board of Accountancy to complete six semester hours of auditing coursework. Three hours may be satisfied through completion of this course. The remaining three semester hours must focus on Generally Accepted Auditing Standards (GAAS).

## **Advanced Manufacturing Sciences**

### **AMS 1010 - Survey of Advanced Manufacturing and Workplace Preparation**

**Credits:** 3

**Description:** The student will learn the "soft skills" required by industry, such as leadership, interactive communication, and collaboration/teamwork skills, utilizing team exercises and team activities. The course also provides an introduction to Advanced Manufacturing and an overview of the Advanced Manufacturing Sciences (AMS) degree concentration's fit and associated employment potential with Advanced Manufacturing Industries.

### **AMS 3010 - Additive Manufacturing Stratasys Certification Preparation**

**Credits:** 3

**Prerequisite(s):** IND 1450 or CET 1215 or MET 1200 with a grade

of "C" or better, or permission of instructor

**Description:** Students receive industry-endorsed proof of workforce ready Additive Manufacturing skills and knowledge through a program of study in preparation for the certification exam: Proof of skills through assessment. The hands-on, project-based learning (PBL) course will let students design and fabricate 3D objects using computer-aided design (CAD) software and 3D printers. Students will experience the design process and become familiar with the advantages and limitations of each 3D printing technology in terms of precision, resolution, and material capabilities.

### AMS 3980 - Industry Internship

**Credits:** 1-15

**Prerequisite(s):** Major in AMS; Junior or Senior status; permission of instructor

**Description:** Students will have an opportunity to gain work experience under the guidance of an industry professional. Students must complete a minimum of 45 clock hours per credit hour during the semester in a placement relevant to their selected AMS concentration. All internship students will also be required to prepare weekly internship reports, complete a self-evaluation survey and a reflective paper at the completion of the placement.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course is variable credit and may be repeated for up to 15 credit hours.*

### AMS 4700 - Team Project Experience

**Credits:** 3

**Prerequisite(s):** All CPM core courses completed with at least a "C-."

**Description:** Students will have an opportunity to gain team project work experience during collaborative projects with industry professionals.

**University Requirement(s):** Senior Experience

### AMS 4950 - Professional Internship

**Credits:** 1-15

**Prerequisite(s):** Junior or Senior standing and completion of the following AMS Core courses with a grade of "C" or better: AMS 1010, AMS 3010, JMP 2610, CSS 1751, EET 1001, IND 1450 or CET 1215 or MET 1200, MET 1310, MET 2010, MET 3000 and MTH 1120; Or, Junior or Senior standing and the permission of the AMSI Director

**Description:** Students will have an opportunity to gain work experience under the guidance of an industry professional. Students must complete a minimum of 3 credits (45 clock hours per credit hour) cumulatively during their degree program in a placement relevant to their selected CPM concentration. All internship students will also be required to prepare weekly internship reports, complete a self-evaluation survey and a reflective paper at the completion of the placement.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course is variable credit and may be repeated for up to 15 credit hours.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** CPM 4950

## Africana Studies

### AAS 1010 - Introduction to Africana Studies

**Credits:** 3

**Description:** This interdisciplinary course in Africana Studies provides an overview of the evolution, scope and objectives of the field, and examines the history, literature, arts, material culture, as well as sociological, political, economic, and philosophical perspectives of the experiences of Blacks, particularly in the United States. The course places the experiences of African Americans within the broader context of the African Diaspora as it explores issues of identity and liberation movement. The course sheds light on the relationship between the past, present and future in shaping Black worldviews and their contributions to the human experience.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

### AAS 1020 - Introduction to Social Justice and Decoloniality

**Credits:** 3

**Description:** This course introduces students to the interdisciplinary fields of Social Justice and Decolonial Studies through interdisciplinary perspectives, methods, and approaches. Students learn about privilege, power, and oppression and their relationships to race, class, gender, sexuality, and other identities. This course asks complex and difficult questions regarding colonialism, decoloniality, sovereignty, and agency. It offers students opportunities to study social movements, and engage in social justice and decolonial praxis.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** CHS 1020, GWS 1020, NAS 1020

### AAS 1080 - Readings in Africana Studies

**Credits:** 3

**Description:** This self-paced course is based upon selected readings in books, magazines and newspapers on Africana Studies.

### AAS 1130 - Survey of African History

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course surveys the major developments on the African continent from ancient times to the modern period. It focuses

on political, social, economic, legal, historical, and cultural developments in African civilizations from ancient Egypt to the present.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1940

### **AAS 2000 - Social Movements and the Black Experience**

**Credits:** 3

**Prerequisite(s):** AAS 1010, SOC 1010, or Permission of instructor

**Description:** This course analyzes and interprets the nature, cause, and consequence of Black social movements in the United States, ranging from the slave period to the present. Particular attention is given to the civil rights movement of the 1950s and 1960s.

*Note: Credit will be granted for only one prefix: AAS or SOC.*

**Cross Listed Course(s):** SOC 2000

### **AAS 2010 - Interdisciplinary Research Methods in Social Issues**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or AAS 1010 or CHS 1000 or Permission of instructor

**Description:** This course focuses on the interdisciplinary study of methods, analyses and critiques used by scholars to study social issues within and across a range of disciplines (e.g., history, arts, humanities, sciences, education, health, economics, law and social/behavioral sciences). Research designs and general statistical interpretation will be reviewed for each methodology. Techniques for laboratory and field research, conducting qualitative and quantitative studies, and writing research reports will also be included.

*Note: Credit will be granted for only one prefix: GWS or AAS or CHS.*

**Cross Listed Course(s):** CHS 2030, GWS 2010

### **AAS 2090 - The Black Lives Matter Movement and the Origins of Modern Black Protest**

**Credits:** 3

**Description:** This course applies sociological concepts and historical themes to an analysis of the origins and nature of the Black Lives Matter (BLM) movement. The course begins with brief coverage of black resistance in the colonial period to the Abolitionist Movement but provides an in-depth exploration of modern black protest in the post-World War II civil rights decades and continues into the late 20th century with high-profile instances of police brutality. The remainder of the course follows a chronology, beginning in 2013 with the creation of #BlackLivesMatter and the growth of a new era of black protest. In addition to high-profile incidences of police brutality, attention is given to movement dynamics as shaped by Internet social media platforms and cable news. The course also addresses the #SayHerName movement, which has highlighted police violence against black women. Issues concerning misogynoir are also covered, including black radical feminist critiques of black male patriarchy, and debates within the black community about the movement's focus. Finally, students will come away with a broad understanding of what systemic institutionalized racism is, as distinguished from incidences of racial violence by individual acts of

terrorism or white supremacist terrorist organizations.

*Note: The course is crosslisted. Credit will be granted for only one prefix.*

**Cross Listed Course(s):** HIS 2090, PSC 2090, SOC 2090

### **AAS 2100 - Women of Color**

**Credits:** 3

**Description:** Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of women's race, class, ethnicity, and sexual orientation are central to this course. The similarities among diverse groups of women are also examined in order to better understand the complexity of women's lives. The course addresses issues of work, health, interpersonal violence, globalization, as well as resistance, activism, and social change across identities.

*Note: Credit will be granted for only one prefix: AAS, CHS, or GWS.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 2100, GWS 2100

### **AAS 2200 - Politics and Black People**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Quantitative Literacy, and either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication

**Description:** Black politics is examined as a vehicle and potential in decision making for positive change for Black people in this country. The realities and the challenges, both historical and current, are emphasized.

*Note: Credit will be granted for only one prefix: PSC or AAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** PSC 2200

### **AAS 2300 - African Peoples and Cultures**

**Credits:** 3

**Description:** This course examines traditional cultures of African peoples and gives added understanding of culture and people in relation to human problems and experiences.

*Note: Credit will be granted for only one prefix: AAS or ANT.*

**Cross Listed Course(s):** ANT 2350

### **AAS 3130 - Readings in African History**

**Credits:** 3

**Prerequisite(s):** AAS 1130 or Permission of instructor

**Description:** This course provides the opportunity for students to explore important writings in a selected subject area of African history. Students advance their knowledge of the materials and information related to the field of African history.

### **AAS 3220 - Prejudice and Discrimination**

**Credits:** 3

**Prerequisite(s):** SOC 1010, GWS 1001, AAS 1010 or permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy

**Description:** Explore the origins and characteristics of bias, prejudice and discrimination in society; social constructions of race, ethnicity, and gender; and the impact of social forces on social structure, institutions, and access to life opportunities.

*Note: Credit will be granted for only one prefix: AAS, SOC or GWS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** SOC 3220, GWS 3220

#### **AAS 3240 - African American Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or AAS 1010 or permission of instructor

**Description:** Students read, analyze, and write about various forms of literature produced by African Americans with consideration of historical and social contexts. Course content includes oral tradition, slave narratives, Harlem Renaissance, Black Arts movement, and contemporary literature.

*Note: Credit will be granted for only one prefix: AAS or ENG.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ENG 3240

#### **AAS 3250 - Black Women Writers**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** The course studies selected works chosen as representative of the issues and concerns of Black women worldwide as voiced by Black women writers from Africa and the Diaspora.

*Note: Credit will be granted for only one prefix: AAS, ENG, GWS, or HON*

**Cross Listed Course(s):** ENG 3250, GWS 3250, HON 3250

#### **AAS 3300 - The Black Community**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or AAS/SOC 2000, or Permission of instructor, and Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course relates fundamental concepts and theories of sociology and African American studies to the study of the Black community through an analysis of educational, political, religious, economic, and family dimensions. It emphasizes local, national, and international Black communities. Classic and contemporary black community studies are examined.

*Note: Credit will be granted for only one prefix: AAS, SOC or SWK.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** SOC 3140, SWK 3140

#### **AAS 3310 - African Art**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course examines the art of the continent of Africa and evaluates the ways it has been studied and displayed. It traces historical relationships between regions, from the shores of the Mediterranean and the Nile Valley, the west and Ivory Coast, to the central regions and east and south to the Swahili Coast and the Cape.

*Note: Credit will be granted for only one prefix: ARTH or AAS.*

**Cross Listed Course(s):** ARTH 3310

#### **AAS 3330 - Egyptian Art**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course examines Egyptian art from the beginnings of civilization in Kemet (the Black Land), through Greek, Roman, and Byzantine colonial periods and continuing into the Islamic period.

*Note: Credit will be granted for only one prefix: AAS or ARTH.*

**Cross Listed Course(s):** ARTH 3330

#### **AAS 3400 - Contemporary Africa**

**Credits:** 3

**Description:** This course focuses on the political, social, and economic highlights of post-independence Africa. Africa's relations with the outside world and the question of South Africa are also examined in this course.

*Note: Credit will be granted for only one prefix: AAS or PSC.*

**Cross Listed Course(s):** PSC 3400

#### **AAS 3440 - American Slavery**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor.

**Description:** This class will explore the origins of slavery in the early modern Atlantic world and trace its history until the age of emancipation. Although the primary focus will be on African slavery in British North America and the United States, the course will integrate the Atlantic and imperial contexts and include comparative units on slavery in other empires, as well as enslavement of Native Americans. Students will analyze the political and economic consequences of slavery, and they will examine the slave cultures themselves, including religion, resistance, and family life.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HIS 3440

#### **AAS 3550 - The Black Family**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or SOC 1010, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides an in-depth exploration of the Black family as a social institution, emphasizing the historical roots of the Black family and how the African influence is enmeshed in the functioning of the family in modern society. It examines the factors responsible for the ability of the Black family to meet the challenge of a changing society.

*Note: Credit will be granted for only one prefix: AAS or SOC.*

**Cross Listed Course(s):** SOC 3440

### **AAS 3570 - African American History I**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the early history of African Americans in the United States, beginning with their ancestry in West and West-Central Africa and culminating with the Civil War. It analyzes their cultural, social, economic, and political transformation in the colonial and national history of the United States. Topics include the Atlantic Slave Trade, colonial identity, plantation slavery, slave communities, resistance, the Constitution and race, demographics of freedom, abolitionism, the Civil War and its aftermath.

*Note: Credit will be granted for only one prefix: AAS, HIS, or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HIS 3570, HON 3570

### **AAS 3580 - African American History II**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course focuses on the collective experience of African Americans in American history, thought, and culture from Reconstruction to the present. It addresses the process of freedom and citizenship through an examination of the major political, economic, and social themes of the 19th and 20th centuries. Particular attention will be paid to the agency of African Americans in community-building, migration, protest, and patriotism.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HIS 3580

### **AAS 3610 - Caribbean History and Culture**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines the evolution of Caribbean societies from the consolidation of slavery in the seventeenth century to the emergence of independent multi-ethnic nations in the twentieth century, and emphasizes the central role of the Caribbean in the Atlantic world.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**Cross Listed Course(s):** HIS 3711

### **AAS 3630 - The African Diaspora**

**Credits:** 3

**Prerequisite(s):** AAS 1010

**Description:** The course examines the aftermath of the Transatlantic Slave Trade's dispersal of Africans in the Americas, by exploring battles waged against enslavement, distinct cultural identities, and manifestations of returning to Africa.

### **AAS 3700 - Psychology of Group Prejudice**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or AAS 1010 or GWS 1001

**Description:** This course covers psychological theory and research that examines causes, effects, expressions, and reduction of group prejudice. Various types of group prejudice are addressed, most notably prejudice against cultural and ethnic minorities in the United States (i.e., Native Americans, African Americans, Hispanic Americans, and Asian Americans). Sexism and heterosexism also are discussed.

*Note: Credit will be granted for only one prefix: AAS, GWS, or PSY.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** GWS 3700, PSY 3700

### **AAS 3910 - African Politics and Government**

**Credits:** 3

**Prerequisite(s):** AAS 1130, AAS 2300, or Permission of instructor

**Description:** This course surveys present-day political systems in Africa and examines internal and external factors that have contributed to their emergence.

*Note: Credit will be granted for only one prefix: AAS or PSC.*

**Cross Listed Course(s):** PSC 3910

### **AAS 3920 - Hip-Hop Culture and Rap Music**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** This course seeks to examine the long-standing cultural warfare that exists among core elements of Hip-Hop culture and the impact such challenges have on gender and social identities. Students will think critically about Hip-Hop music beyond the scope of entertainment through the examination of literature, films, and music that provide interdisciplinary discourse on Hip-Hop in our society.

**Cross Listed Course(s):** HIS 3920, MUS 3895, SOC 3250

### **AAS 3930 - African Authors**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** African Authors examines the lives and classic works of writers born on the African continent. The literature of the authors selected for close study speaks to life in countries that traverse the continent, representing multiple perspectives that reflect pre-colonial to post-colonial realities. English language texts are utilized, as well as works translated from French, Arabic, and Kikuyu. The overall content of the course emphasizes the impact of colonialism on African nations and the continuation of the African oral tradition in

literary works. Supplemental aspects of the course engage critical thought on the place of Egypt in the African world and the politics of language choice on an African text.

**General Studies:** Arts and Humanities, Global Diversity

### **AAS 3980 - Internship in Africana Studies**

**Credits:** 1-15

**Prerequisite(s):** AAS 1010

**Description:** This internship places students in corporate, private non-profit, and/or community-based agencies that serve Black and African Diaspora communities. A written contract between the student, site supervisor, Applied Learning Center, and department chair is required. Internship activities may include developing skills in problem solving, program development, grant writing and group leadership.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable Credit*

### **AAS 4010 - Education of African American Children**

**Credits:** 3

**Prerequisite(s):** AAS 1010, EDU 3000, EDU 3200, EDU 3640, and EDU 3650

**Description:** This course analyzes the historical and contemporary factors that influence the education of African American children in the United States. Focus is on the knowledge, skills, and dispositions required by educational institutions, educators, and parents to provide an effective and equitable education for African American children. Practical application is integrated with theoretical research and conceptual information. Students who successfully complete this course will receive introductory skills and experiences as effective practitioners, reflective decision makers, and resources for the community.

*Note: Credit will be granted for only one prefix: AAS or EDU.*

**Cross Listed Course(s):** EDU 4010

### **AAS 4160 - Human Trafficking**

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** CJC 4160, GWS 4160, HON 4160, HSP 4160, SWK 4160

### **AAS 4490 - Contemporary Issues in Africana Studies**

**Credits:** 3

**Prerequisite(s):** AAS 1010

**Description:** This course provides an in-depth study of selected issues that significantly impact Black people throughout the global African world.

*Note: Topics vary, and the course may be repeated for credit with the permission of the department chair.*

### **AAS 4850 - Research Seminar in Africana Studies**

**Credits:** 3

**Prerequisite(s):** Six credits of upper-division courses in AAS

**Description:** This course provides a capstone opportunity for refining research skills and engaging in graduate school-style seminar sessions. The course is required to complete the AAS major.

**University Requirement(s):** Senior Experience

## **Air Force ROTC**

### **AFR 1010 - Heritage and Values I**

**Credits:** 1

**Description:** This course provides an introduction to the Air Force, encourages students to pursue an AF career or seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values.

### **AFR 1020 - Heritage and Values II**

**Credits:** 1

**Prerequisite(s):** AFR 1010

**Description:** A continuation of AFR 1010. This course provides a historical perspective including lessons on war and the US military, AF operations, principles of war, and airpower. This course also provides students with an understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students are introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.

### **AFR 2010 - Team and Leadership Fundamentals I**

**Credits:** 1

**Prerequisite(s):** AFR 1020

**Description:** This course is designed to provide a fundamental understanding of both leadership and team building. This course teaches students that there are many layers to leadership, including aspects that are not always obvious. Such things include listening, understanding themselves, being a good follower, and problem solving efficiently.

## **AFR 2020 - Team and Leadership Fundamentals II**

**Credits:** 1

**Prerequisite(s):** AFR 2010

**Description:** A continuation of AFR 2010. This course is designed to discuss different leadership perspectives when completing team building activities and discussing things like conflict management. This course also provides students with the ability of demonstrating their basic verbal and written communication skills. Active cadets will apply these lessons at Field Training, which follows the AS200 level.

## **AFR 3010 - Leading People and Effective Communication I**

**Credits:** 3

**Prerequisite(s):** AFR 2020

**Description:** This course is designed to build on the leadership fundamentals taught in the AS200 level. The cadets will have the opportunity to utilize their skills as they begin a broader leadership role in the detachment. The goal is for cadets and students to have a more in-depth understanding of how to effectively lead people and provide them with the tools to use throughout their detachment leadership roles.

## **AFR 3020 - Leading People and Effective Communication II**

**Credits:** 3

**Prerequisite(s):** AFR 3010

**Description:** This course is designed to help cadets hone their writing and briefing skills. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and a supervisor.

## **AFR 4010 - National Security, Leadership Responsibilities/Commissioning Preparation I**

**Credits:** 3

**Prerequisite(s):** AFR 3020

**Description:** This course is designed to address the basic elements of national security policy and process. The cadet will comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession.

## **AFR 4020 - National Security, Leadership Responsibilities/Commissioning Preparation II**

**Credits:** 3

**Prerequisite(s):** AFR 4010

**Description:** In two 1 1/2-hour seminars and one 1 1/2 hour lab per week, this course is a continuation of AFR 4010. Special themes include defense strategy and conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communicative skills.

## **Alternative Licensure Program**

## **ALP 2200 - Diversity and Multicultural Education**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed to increase student awareness of the values and beliefs, traditions, identifiers, and contributions of African Americans, Asian Americans, Hispanic Americans, and Native Americans. Historical, cultural, and individual variations, including socio-economic status, gender, sexual orientation, language background and disabilities will be investigated to help develop respect for all students, parents, and educators in school settings. Students will discover how personal attitudes may affect expectations and decisions in the elementary, secondary, and special education school settings.

## **ALP 3600 - Exceptional Learners in the Classroom**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course provides a survey of various exceptionalities, ranging from moderate to severe. Information about child abuse and medical conditions, and their possible effects on student learning and behavior is provided. Teacher candidates are introduced to the special education processes, including the development of individualized education plans from a general education teacher perspective. Principles of Universal Design for Learning (UDL) curriculum accessibility issues are addressed.

## **ALP 3650 - Individualized Education and Curriculum**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course focuses on Individualized Education Plans (IEP) and transition plans for purposes of preparing special educators for teaching curricula within the context of special and general education classrooms. An overview of the philosophical, historical, and sociological foundations of education will be addressed.

## **ALP 3675 - Transition Planning and Instruction**

**Credits:** 3

**Prerequisite(s):** ALP 3650

**Description:** This course provides an in-depth understanding of transition services for students with exceptionalities from childhood to adulthood. Course content focuses on an in-depth investigation of the provision of transition services in the context of comprehensive,

secondary education services. Topics in this course include transition-focused IEP development, self-determination and self-advocacy, inter-agency collaboration, transition assessment, and career, vocational, and post-secondary education strategies. Teacher candidates gain the knowledge base and skills necessary to successfully manage the transition services of their future students.

#### **ALP 3700 - Educational and Medical Aspects of Disabilities**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course provides an overview of the multidisciplinary needs of students with physical, communicative, cognitive, and sensory disabilities. Emphasis is placed on explaining the impact of medical needs on educational experiences. Principles of Universal Design for Learning (UDL) will be addressed. Teacher candidates must complete a 15-hour field experience in an assigned public school that provides services for students with severe disabilities.

#### **ALP 3750 - Assessment, Methods, and Assistive Technology for Severe Disabilities**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed to introduce pre-service teachers to assessment, curriculum and instruction for students with severe disabilities. Focus will be given to including students in their neighborhood schools, homework, and community. The course also emphasizes the selection and efficacy of assistive device technologies. A minimum 45-hour, field-based experience is required.

#### **ALP 3820 - Elements of Literacy Instruction for Students with Disabilities**

**Credits:** 3

**Prerequisite(s):** Must hold a Baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Corequisite(s):** SED 3821

**Prerequisite(s) or Corequisite(s):** ALP 3600, ALP 3650

**Description:** Within this course, students will learn about the components of literacy with a focus on phonemic awareness, phonics, fluency, vocabulary, and comprehension as taught in elementary classrooms. Assessment data is used to design lesson plans and apply scientifically-based interventions to address the needs of students with literacy challenges, including dyslexia. A direct-instruction teaching approach based on best practices is a focus. The course has a

co-requisite of a field-based class which will include a 45-hour field-based experience with elementary level students.

**Cross Listed Course(s):** SED 3820

#### **ALP 3950 - Mathematics Instruction for Students with Disabilities**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed to introduce effective classroom methods and strategies for teaching, assessing, and monitoring the mathematical performance of students with disabilities within diverse classroom settings. An emphasis is placed on practical classroom techniques to facilitate, maintain, retain, and generalize skill acquisition. Computation and problem-solving techniques are covered. This class requires a 15-hour, project-based field experience.

#### **ALP 4050 - Assessment and Instructional Planning**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed to increase student awareness of the values and beliefs, traditions, identifiers, and contributions of African Americans, Asian Americans, Hispanic Americans, and Native Americans. Historical, cultural, and individual variations, including socio-economic status, gender, sexual orientation, language background and disabilities will be investigated to help develop respect for all students, parents, and educators in school settings. Students will discover how personal attitudes may affect expectations and decisions in the elementary, secondary, and special education school settings.

#### **ALP 4200 - Reading Disabilities and Content Instruction**

**Credits:** 3

**Prerequisite(s):** Must hold a Baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Prerequisite(s) or Corequisite(s):** ALP 3600, ALP 3650, ALP 3820

**Description:** This course explores the nature of dyslexia including etiological, sociological, and psychological perspectives, as well as treatment methods. Special emphasis is devoted to reading disabilities in reference to the demands of content instruction at the secondary school level. Critical thinking, study skills, cooperative learning, and Universal Design for Learning (UDL) will be addressed within the context of improving reading and writing achievement of students with disabilities.

## **ALP 4250 - Effective Behavioral Support Systems**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed to introduce the principles of applied behavior analysis and behavior modification. The use of systematic behavioral assessments, functional behavior assessment plans, behavior intervention plans, and classroom intervention strategies are emphasized. Teacher candidates are prepared to apply Universal Design for Learning (UDL) principles in diverse contexts that include both general and special education classes.

**Cross Listed Course(s):** SED 3250

## **ALP 4300 - Assessment and Methods for Emotional and Behavioral Disorders**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is designed for teacher candidates to learn how to select, adapt, and use instructional interventions and strategies with students with emotional and behavioral disorders in a variety of settings. Theoretical approaches, identification, educational placement, and evaluation issues will be addressed. In addition, specific categories of disordered behavior, such as bipolar, depression, anxiety, oppositional defiant disorders, schizophrenia, and childhood psychosis, will be discussed. Students are required to apply knowledge and skills in a 30-hour field-based experience.

## **ALP 4400 - Special Education Student Teaching and Seminar: Elementary**

**Credits:** 12

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is a full-time special education student teaching experience in an accredited elementary public or private school that provides teacher candidates responsibility for teaching an identified group of learners with exceptionalities. A minimum of 16 weeks is required for 12 credits. College supervisors provide regularly scheduled observations and seminars and guidance on the development of the teacher work sample.

## **ALP 4430 - Instruction and Collaboration Practicum: Elementary**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate

degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160. **Description:** This practicum is a culminating experience that provides teacher candidates with a structured, supervised secondary level practicum in a special education setting for adolescents. A strong emphasis is placed on transition planning and process for the middle and/or high school student in special education. The seminars are designed to address assigned topics and activities that are linked to the teaching responsibilities of the practicum.

## **ALP 4440 - K-12 Practicum in Special Education**

**Credits:** 3

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160. ALP 2200, ALP 3600, ALP 3650, ALP 3820, ALP 3950, ALP 4050, or permission of instructor.

**Description:** This practicum is a culminating experience that provides teacher candidates with a structured, supervised elementary and/or secondary level practicum in a special education setting for children with disabilities. A strong emphasis is placed on the importance of decision making in diverse contexts including numerous assessment and instructional situations using a case-based approach that will encourage integration of theory and application. The seminars are designed to address assigned topics and activities that are linked to the teaching responsibilities of the practicum.

## **ALP 4490 - Special Education Student Teaching and Seminar**

**Credits:** 12

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** This course is a full-time special education student teaching experience in an accredited elementary public or private school that provides teacher candidates responsibility for teaching an identified group of learners with exceptionalities. College supervisors provide regularly scheduled observations and seminars and guidance on the development of the teacher work sample.

## **ALP 4491 - Alternative Licensure Program I**

**Credits:** 10

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Description:** The Alternative Licensing Program 1 course (ALP 1) is a course in which candidates learn appropriate educational practices in discipline, management of the learning environment, short/long

range planning, assessment and pedagogy to meet the Colorado Teacher Quality Standards. Candidates will apply content knowledge assigned classrooms to facilitate learning and improve student achievement. ALP candidates will address the needs of diverse learners (gender, ethnicity, second language learners, handicapping conditions) in different contexts as reflected in daily decision-making and as evidenced by direct observation and selected artifacts. Seminar includes required readings, articles, field-based examples, student-centered instructional tasks, classroom interaction and analysis to meet proficient level of performance in the Colorado Teacher Quality Standards. Candidates will learn about and practice selected theories and programs in discipline, management, and pedagogy. Coaching and feedback as strategies are used to support the development of ALP candidates in the classroom.

### **ALP 4492 - Alternative Licensure Program II**

**Credits:** 15

**Description:** The Alternative Licensing Program 2 course (ALP 2) is a course in which candidates put educational theory into practice as a classroom teacher and in the field to meet the Colorado Teacher Quality Standards. Candidates will apply content knowledge and pedagogical strategies with appropriate discipline and management practices in assigned classrooms to facilitate learning and improve student achievement. ALP candidates will address the needs of diverse learners (gender, ethnicity, second language learners, handicapping conditions) in different contexts as reflected in daily decision-making and as evidenced by direct observation and selected artifacts. Field experiences include application of methodology introduced at weekly seminars to meet proficient level of performance in the Colorado Teacher Quality Standards. Candidates will model and practice selected theories and programs in discipline, management, and pedagogy. Coaching and feedback as strategies are used to support the development of ALP candidates in the classroom.

### **ALP 4493 - Educational Theory and Methods**

**Credits:** 10

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.  
**Corequisite(s):** ALP 4494

**Description:** Alternative Licensure Program candidates learn appropriate educational practices in management of the learning environment, short/long range planning, assessment and pedagogy to meet the Colorado Teacher Quality Standards and licensure requirements. Candidates will apply content knowledge and pedagogical strategies with appropriate discipline and management practices in assigned classrooms to facilitate learning and improve student achievement in the advanced field experience ALP 4494. ALP candidates will address the needs of diverse learners (gender, ethnicity, English language learners, exceptional learners, socioeconomic differences, etc.) in different contexts as reflected in daily decision-making and documented by direct observation and selected artifacts. Instruction includes required readings, articles, field-based examples, student-centered instructional tasks, classroom interaction and analysis to meet proficient level of performance in the

Colorado Teacher Quality Standards. Candidates will learn about and practice selected theories and programs in discipline, management, and pedagogy. Coaching and feedback as strategies are used to support the development of ALP candidates in the classroom.

### **ALP 4494 - Advanced Field Experience**

**Credits:** 20

**Prerequisite(s):** Course participants must hold a baccalaureate degree from a regionally accredited institution and have been hired by a Metro-area school or school district to teach in an area for which the candidate can meet grade level and content licensure requirements under the Alternative Licensure legislation, SB 09-160.

**Corequisite(s):** ALP 4493

**Description:** Alternative Licensure Program candidates put educational theory into practice as a classroom teacher in the field to meet the Colorado Teacher Quality Standards and licensure requirements. This course is the advanced field experience for ALP 4493. Candidates will apply content knowledge and pedagogical strategies with appropriate discipline and management practices in assigned classrooms to facilitate learning and increase student achievement. ALP candidates will address the needs of diverse learners (gender, ethnicity, English language learners, exceptional learners, socioeconomic differences, etc.) in different contexts, as reflected in daily decision-making, and will be assessed by direct observation and selected artifacts. Field experiences include application of methodology introduced in ALP 4493 to meet proficient level of performance in the Colorado Teacher Quality Standards. Candidates will model and practice selected theories and programs in discipline, management, and pedagogy.

## **Anthropology**

### **ANT 1010 - Introduction to Biological Anthropology**

**Credits:** 3

**Description:** This course is an introduction to the science of biological anthropology, the study of biological evolution and variation among humans and our closest living relatives, the primates. Students learn about evolutionary theory, human genetics, human and primate skeletal anatomy, bioarchaeology and forensic anthropology, primate taxonomy and geographic distribution, primate and human evolution, and human variation and adaptation. The laboratory sections embedded within the course provide practical experience in the following areas: DNA analysis, population genetics and evolutionary forces, human and primate skeletal anatomy, bioarchaeology, fossil hominin anatomy, and modern human variation.

**General Studies:** Natural and Physical Sciences, Global Diversity

**Guaranteed Transfer:** GT-SC1

### **ANT 1310 - Introduction to Cultural Anthropology**

**Credits:** 3

**Description:** This course is an exploration of the diversity that defines human experience. Students learn about the field of anthropology and its approach to examining other cultures with a focus on holism and cultural relativism. Students are introduced to

fieldwork methods in anthropology and the importance of participant-observation in cultural anthropology. Course content introduces students to various aspects of cultures across the globe, such as subsistence strategies, political organization, social identities and hierarchies, marriage, family and kinship systems, religious behavior, health, language, creative and artistic expressions, and issues of power in relation to colonialism, socio-economic discrimination, and global inequalities.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS3

**Cross Listed Course(s):** HON 1311

### ANT 1650 - Ancient Civilizations

**Credits:** 3

**Description:** This course introduces students to the development of ancient civilizations from a broad, comparative framework. These civilizations are studied from religious, economic, intellectual, political, cultural, and social perspectives.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1005

### ANT 2330 - Cross-Cultural Communication

**Credits:** 3

**Description:** This course explores anthropological approaches to cross-cultural communication. Emphasizing an applied approach, the course focuses on how language and language use vary from culture to culture, and how knowledge of these differences can lead to understanding of difference and dominance relations between groups within the United States, specifically African-American, Asian, Hispanic American, and Native American, and internationally. Topics include the relationship between language and culture, sociolinguistic variation, politeness, multilingualism, and language politics.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

### ANT 2350 - African Peoples and Cultures

**Credits:** 3

**Description:** This course examines traditional cultures of African peoples and gives added understanding of culture and people in relation to human problems and experiences.

*Note: Credit will be granted for only one prefix: ANT or AAS.*

**Cross Listed Course(s):** AAS 2300

### ANT 2360 - Living Culture and Language of the Mexican and Chicano

**Credits:** 3

**Prerequisite(s):** CHS 1000 or CHS 1020

**Description:** This course traces the fusion of cultures and dialects of the Spanish-speaking Southwest into elements that characterize Chicano intracultural and intercultural diversity.

*Note: Credit will be granted for only one prefix: ANT or CHS.*

**Cross Listed Course(s):** CHS 2000

### ANT 2400 - Women's Folklore and Folklife

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course provides an exploration of folklore in everyday life, folk narrative, and other verbal genres, cultural forms, and manifestations of traditional expressive behaviors as they pertain to reinforcing and resisting gender norms and practices within diverse cultures. It offers a critical examination of how women creatively use folklore to affirm and subvert their roles within sexist, racist, classist, and heterosexist cultural systems.

*Note: Credit will be granted for one prefix only: ANT or GWS.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** GWS 2400

### ANT 2500 - Anthropology of Language

**Credits:** 3

**Prerequisite(s):** Preassessment Placement Tests: Reading and Writing (minimum performance standard scores)

**Description:** This course provides an introduction to the concepts and methods of linguistic anthropology. Topics include language and culture, language structure, the origins of language, linguistic diversity, and language ideologies. The course also provides opportunities to observe and record speech and other communicative behaviors; identify the sequential organization of talk; and determine how language reflects and creates social identities, relationships, and realities.

### ANT 2640 - Archaeology

**Credits:** 3

**Description:** This course will be an examination of how archaeologists discover and interpret the material remains of human behavior from the past.

### ANT 2700 - Museum Studies

**Credits:** 3

**Description:** The course examines the basic elements of museums, their missions, and their characteristics. It is organized around the key professional activities of museums: curation, exhibit design, conservation, management, and community engagement. Student gain an appreciation of the range of skills and knowledge required for succeeding in the museum profession.

### ANT 2710 - Archaeological Field Research

**Credits:** 3

**Description:** This course is an introduction to the methods used to collect and analyze archaeological data in a hands-on field setting. Students are introduced to surface survey, excavations, and data recording to discover and describe archaeological features and artifacts. This course may be repeated for up to a maximum of six

hours. No more than three credit hours may be applied toward a major or minor in anthropology.

### **ANT 3000 - Quantitative Methods in Anthropology**

**Credits:** 3

**Prerequisite(s):** ANT 1010, or ANT 1310, or ANT 2500, or ANT 2640, or MTH 1210, or permission of instructor

**Description:** This course is an introduction to quantitative data analysis for all four subfields of anthropology. A variety of statistical methods are covered with an emphasis on anthropological datasets. Students learn descriptive statistics, univariate methods, and select multivariate methods that are commonly used in the anthropological literature. Presentation of data and results is also highlighted. No previous statistical knowledge is required for the class, but a prior introductory statistics course is preferred.

### **ANT 3100 - Human Evolution**

**Credits:** 3

**Prerequisite(s):** ANT 1010 or permission of instructor

**Description:** This course is an overview of the evolutionary history of our species, *Homo sapiens*, and our extinct ancestors, the hominins. Taking a largely chronological approach, students learn the anatomical features of each hominin species through lectures, readings, and hands-on analysis of hominin fossil casts. Students also learn aspects of hominin ecology and behavior, as inferred from their morphology and associated archaeological and faunal remains. Additional topics include an introduction to evolutionary theory, taxonomy and systematics, primate evolution, and human skeletal biology.

### **ANT 3110 - Race and Human Variation**

**Credits:** 3

**Description:** This course explores the history of the race concept in biological anthropology and evaluates human biological variation from a biocultural perspective. The first half of the course includes a critical history of the race concept in biological context, focusing on the development of this concept and the social consequences of its adoption. The second half of the course addresses human biological variation from a biocultural perspective. This perspective evaluates biological variation within the context of environment and culture, and views the interaction of these contexts as essential in understanding human phenotypic variation.

### **ANT 3122 - The Neanderthal Enigma**

**Credits:** 3

**Prerequisite(s):** ANT 1010 or Permission of instructor

**Description:** This course is an in-depth look at our closest evolutionary cousins, the Neanderthals. Neanderthals have been studied for over 150 years, and many early incorrect interpretations of them still persist in society today. As such, the class begins with a thorough look at the history of the study of Neanderthals before moving on to modern perspectives on Neanderthal biology, culture, and why they are no longer around.

### **ANT 3170 - Primate Adaptation and Evolution**

**Credits:** 3

**Prerequisite(s):** ANT 1010 or permission of instructor

**Description:** This course addresses adaptation in the Order Primates. It includes a discussion of the primary forces of evolution and a detailed examination of how one of these forces, natural selection, has shaped the anatomy of living and fossil primate species. Students assess the diagnostic anatomical features of living and fossil primate groups and learn how to use these features to predict diet, locomotion, and social structure. Students also examine the evolutionary relationships of living primates and assess how fossil primates contribute to our understanding of these relationships.

### **ANT 3300 - Exploring World Cultures: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or Permission of instructor

**Description:** The focus of study will be an exploration of selected non-Western cultures. Using films and various ethnographic procedures, the student learns how culture-and by extension, human culture-is a living thing shaped by the people who carry it.  
*Note: The course may be repeated under different topics.*

### **ANT 3310 - Ethnography of North American Indians**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or Permission of instructor

**Description:** This course studies the nature and consequences of distinctive Indian cultures that occupied North America at the time of European contact. Includes a close analysis of the many different aspects of social organization and environment that contribute to the unique cultures we call American Indian.

**University Requirement(s):** Multicultural

### **ANT 3320 - Anthropology of Japan**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or permission of instructor

**Description:** This course provides a comprehensive introduction to the anthropological study of contemporary Japanese culture and society, with attention to historical, ethnographic and media interpretations. Major themes include historical background of contemporary Japanese society, language and communication, changing social patterns and institutions, demographic transition, popular culture, citizens' movements, and globalization.

### **ANT 3330 - Japan: Culture, Communication, and Identity**

**Credits:** 3-6

**Prerequisite(s):** Permission of instructor

**Description:** This study abroad course explores Japanese culture, communication, and identity through lecture, experiential learning, and ethnographic fieldwork in Japan. Pre-departure instruction focuses on geography, history, social organization, political-economy, patterns of social interaction, and ethnographic field methods. Week-long stays in distinct regions of Japan enable students to observe and experience how social-political, regional, and

linguistic differences shape majority and minority identities, despite the belief that Japan is culturally homogenous.

### **ANT 3335 - Asian American Experiences**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course critically reviews Asian American history and examines its relevance to contemporary issues in the U.S. It employs an interdisciplinary approach to examine the intersectionality of power, race, class, gender, and internal marginalization in shaping Asian American experiences. Topics include: racial formation of Asian American ethnic identities; historical roots of discrimination and anti-Asian violence (with special topics on Asian American women and Asian Americans in Colorado); negotiation of Asian American identities and culturally distinctive coping strategies; the myth and consequences of "Model Minority"; the relevance of the "Sojourner Hypothesis" in the 21st century; and generations of Asian American social movements aiming at achieving equality and justice for all.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** SOC 3200

### **ANT 3340 - Native Americans in Historical Perspective**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or Permission of instructor

**Description:** This course is a survey of the response of Native American societies to the overrunning social, economic, and political structures of Euro-America. Broad areas of cultural change are covered, and the fundamental issues of land, economic development, and cultural integrity are looked at.

**University Requirement(s):** Multicultural

### **ANT 3361 - Gender and Disaster**

**Credits:** 3

**Description:** This course analyzes gender's shaping global development and disaster vulnerability by focusing on the experiences of girls and women before, during, and after disastrous events. It examines intersecting patterns of vulnerability and response based on gender, class, race/ethnicity, age, nationality and other factors. Students examine gender-focused case studies from developed and developing societies and investigate the practical implications of gender-sensitive sociology of disaster.

*Note: Credit will be granted for only one prefix: ANT, GWS, or SOC*

**Cross Listed Course(s):** GWS 3780, SOC 3780

### **ANT 3365 - Structural Violence, Poverty and Human Rights**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** In this course, students apply a structural violence framework to make visible the power inequalities that result in producing and reproducing injustices and violations of socioeconomic rights. The use of ethnographic case studies allows students to explore a human rights-based approach to collective actions for justice. Through group discussion, analysis, and

workshops, student learn to take political responsibility for injustices beyond those we individually witness or experience.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** GWS 3365, PSC 3365

### **ANT 3375 - Food Cultures**

**Credits:** 3

**Description:** This course is an exploration of how food procurement, dietary practices, ideologies of consumption, and food celebrations across cultures are related to varying environments, subsistence strategies, moral sensibilities, socioeconomic and political conditions, social identities, and social hierarchies. Using an anthropological approach, students examine how the ideological, emotional, symbolic, aesthetic, and social value of food and its marketing varies across cultures. In addition, course materials introduce students to the politics and social movements revolving around ethical food procurement and food as a human right.

*Note: Credit will be granted for only one prefix: ANT or NUT.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** NUT 3375

### **ANT 3379 - Middle Eastern Cultures**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ANT 1310 or PSC 1020

**Description:** This course introduces students to various aspects of Middle Eastern cultures, including family life, marriage, kinship, religious practices, communal, ethnic, class, and gender identities. Using anthropological approaches of holism and cultural relativism to studying cultures, the course highlights the region's diverse ethnic, religious, linguistic and economic groups, its visual, popular, national, gender, and social cultures, and how colonial history and foreign powers have influenced it using ethnographic case studies and cultural histories from Afghanistan, Bahrain, Egypt, Iran, Israel, Israel, Jordan, Kuwait, Lebanon, Oman, Pakistan, Palestine, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates, and Yemen.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** PSC 3379

### **ANT 3380 - Exploring Folklore**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or CHS 1000; or Permission of the instructor

**Description:** This course will help the student to analyze the various elements of folklore from verbal to non-verbal classifications, survivals, revivals, and the implications for modern society. Folklore will be studied in a historical and contemporary context. The student will gain an understanding of both the universality and variability of folklore through many global examples compared and contrasted with a regional focus on the folklore of the American Southwest.

**Cross Listed Course(s):** CHS 3880

### **ANT 3386 - Religious Narratives and Culture**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or PHI 1010 or PHI 1040 or PHI 1050 or

at least 6 General Education credits or instructor permission

**Description:** This course is an anthropological examination of how the supernatural cosmos and entities are conceptualized in religious texts and narratives diversely across cultures and how they relate to socio-economic, political and artistic aspects of life. Topics include creation narratives, myths, legends and folklore, rituals and rites of passage, magic and witchcraft, ritual mediation, taboos, religious symbols, and religious movements.

**General Studies:** Arts and Humanities

### **ANT 3391 - Approaching Culture: Past and Present**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or permission of instructor

**Description:** The study of human behavior and cultures has always fascinated and puzzled social scientists. In this course, we will examine the historical and social dimensions of the study of cultures from the 19th century to the present and related conceptual paradigms. In addition, we will examine how increased awareness of issues of differential power, observer/observed subjectivities, culturally constructed identities and fieldwork ethics have influenced how we understand the human condition.

*Note: Students cannot earn credit for both ANT 3390 and ANT 3391.*

### **ANT 3395 - Transnational Genders and Sexualities**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or GWS 1200 or ANT 1310 or ANT 2500 or ENG 1020 or ENG 1021

**Description:** This course explores the transnational production of gender and sexualities. It examines how people, ideas and capital moving across borders play a role in the development of gender and sexual identities, practices, and communities. Through this focus, the course engages transnational phenomena such as tourism, migration, global LGBT communities, colonization and human rights.

*Note: Credit will be granted for only one prefix: ANT or GWS*

**General Studies:** Social and Behavioral Sciences, Global Diversity  
**Cross Listed Course(s):** GWS 3395

### **ANT 3420 - Applied Anthropology**

**Credits:** 3

**Prerequisite(s):** ANT 1310 and 3 credit hours of upper-division anthropology coursework

**Description:** Often regarded as the fifth field of anthropology, applied anthropology is an aspiration, necessity and reality for contemporary anthropologists. This course explores how anthropological knowledge can be applied to solve problems and meet the needs of communities and organizations in pursuit of human rights, peace and social egalitarianism. Different facets of applied anthropology, from public anthropology to community-based anthropology to activist anthropology and others will be examined using examples from the field to highlight ways in which anthropologists apply anthropological theory, ethics, fieldwork methodology and data to initiate solutions to real-life problems of the communities and organizations which they study. Furthermore, students will learn about the career trajectories that involve applying anthropological insights to community betterment.

### **ANT 3480 - Cultural Diversity in Health and Illness**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy, and permission of instructor.

**Description:** This course prepares students to understand the many different viewpoints and concepts related to health and illness in other cultures and emphasizes the need and means to provide culturally appropriate health care.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3480

### **ANT 3490 - Globalization and Culture**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or permission of instructor

**Description:** This course explores anthropological approaches to globalization, with an emphasis on understanding transnational movements of capital, commodities, persons and ideas through the analysis of ethnographic case studies. Students examine the impact of globalization on how anthropologists theorize culture and conduct ethnographic fieldwork.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**Cross Listed Course(s):** HON 3492

### **ANT 3520 - Analyzing Talk and Interaction**

**Credits:** 3

**Description:** Face-to-face interaction is a defining feature of human behavior. It is where language, bodily movement, and other modalities of expression become socially enacted as talk. Through this course, students collect and prepare data to examine this special site of human existence, focusing on how people coordinate and situate their language and bodies within a richly structured social, cultural, and material world.

**Cross Listed Course(s):** COMM 3120, SOC 3360

### **ANT 3530 - Writing Systems and Scribal Traditions**

**Credits:** 3

**Description:** From columns of Classic Mayan glyphs and Chinese characters to strings of Greek letters and Viking runes, the world's writing systems and scribal traditions are vast and diverse. In exploring this topic, the course examines how sounds, words, social meanings, and other properties of human languages are graphically adapted and culturally transformed into writing systems. Specific areas of focus include the historical development of writing systems, epigraphy and the decipherment of ancient languages, scribal artistry and craft, and the relationship between writing and sociopolitical power. Although surveying several writing systems and associated phenomena, the course also features an in-depth exploration of Classic Mayan writing (or another visually complex system).

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** LING 3090

### **ANT 3540 - Women in the Developing World**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020 or ANT 1310

**Description:** This course presents a cross-cultural study of women's lives in the developing world by examining two main issues: the influence of culture on women's issues and politics' impact on women. By the end of this course students will not only learn about the lives of women in the developing world but also become familiar with how women across the globe articulate the desire for equality.

*Note: Credit will be granted for only one prefix*

**Cross Listed Course(s):** GWS 3540, HON 3540, PSC 3540

### ANT 3600 - Archaeology of Eurasia and Africa

**Credits:** 3

**Prerequisite(s):** ANT 1650 or equivalent, or permission of the instructor

**Description:** This course examines important archaeological discoveries relevant to the archaeology of Eurasia and Africa. Students critically analyze archaeological evidence to understand early human migrations, the domestication of plants and animals, the rise of civilizations, and intercultural or interregional contacts from the Paleolithic to the Iron Age.

### ANT 3610 - Colorado Archaeology

**Credits:** 3

**Prerequisite(s):** ANT 1650 or equivalent, or permission of the instructor

**Description:** This course examines important discoveries relevant to the archaeology of Colorado. Students critically analyze archaeological evidence, as well as historic and contemporary scholarship, to understand human adaptation to environmental diversity, Native American lifeways, and later intercultural and interregional contacts.

### ANT 3630 - Archaeology of Ancient Egypt

**Credits:** 3

**Description:** This course examines a set of timeless historical and anthropological issues as experienced by ancient Egyptians. Students critically analyze the classic Egyptian discoveries and review the latest archaeological research.

**Cross Listed Course(s):** HIS 3707

### ANT 3640 - Biblical Archaeology

**Credits:** 3

**Description:** This course examines important archaeological discoveries relevant to biblical historical contexts and interpretation. Students critically analyze both material and literary evidence, as well as historic and contemporary scholarship, to understand the benefits and challenges of correlating ancient literary sources, biblical narratives, and the archaeological record.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Global Diversity, Social and Behavioral Sciences

**Cross Listed Course(s):** HIS 3706

### ANT 3650 - 100,000 Years of War

**Credits:** 3

**Description:** This course uses a broad comparative framework to introduce students to the economic, intellectual, political, and cultural impact that warfare has had from prehistory to modern times. One of every 150 people die violently in the world today. One of every 100 people died in this fashion a century ago, and one of every fifty people approximately 1,000 years ago. An astonishing one out of ten people died violently 10,000 years ago. Students will explore this contingent shift away from violence over time.

*Note: Credit will be granted for only one prefix: ANT or HIS.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** HIS 3705

### ANT 3660 - Archaeology of the Americas

**Credits:** 3

**Prerequisite(s):** ANT 1650 or equivalent, or permission of the instructor

**Description:** This course examines important archaeological discoveries relevant to the archaeology of the Americas. Students critically analyze archaeological evidence, as well as historic and contemporary scholarship, to understand the populating of the Americas, domestication of plants and animals, the rise of civilizations, and intercultural and interregional contacts.

### ANT 3790 - Human Osteology

**Credits:** 3

**Prerequisite(s):** ANT 1010 or permission of instructor

**Description:** This course instructs students in human osteology from an anthropological perspective. Instruction covers bone as a living tissue and how it grows and develops, as well as the manner in which it responds to stress. Students receive instruction in the identifying features of each bone, including major muscle attachment sites, and they learn how to create a biological profile by analyzing human skeletal remains, including estimating biological sex, age at death, stature, and population affinity. They are also instructed in the identification of specific bones, the side from which they came, and the sex and age where appropriate for fragmented remains. Students have the opportunity to work with human bone casts and human bones, including bone fragments, which form part of the MSU Denver Anthropology program collection. This course counts toward the Anthropology major's practical requirement.

### ANT 3800 - Forensic Anthropology

**Credits:** 3

**Prerequisite(s):** ANT 1010 or permission of instructor

**Description:** This course offers instruction in the foundational concepts, theories, and methodologies used in the field of forensic anthropology. Students receive instruction in human osteology; human skeletal analysis; statistical analysis; scene location, recovery and analysis; chain of evidence preservation; medicolegal aspects of trial testimony; and professional avenues for forensic anthropologists within the broader forensic sciences. Students engage critically with theory and current methods via hands-on lab activities, discussion, and written assignments. This course counts towards the Anthropology major's practical requirement.

## ANT 3820 - Forensic Archaeology

**Credits:** 3

**Prerequisite(s):** ANT 2640 or permission of instructor

**Description:** This course examines the role of forensic archaeology within the specialty field of forensic anthropology. It includes a discussion of the role of the forensic anthropologist in the United States. The importance of traditional archaeological techniques and how they may be adapted within a medico-legal context are addressed. Methods for the search and location of forensic sites, and the excavation and recovery of human remains and associated evidence are discussed in detail.

## ANT 3840 - Introduction to Bioarchaeology

**Credits:** 3

**Prerequisite(s):** ANT 1010

**Description:** This course is an introduction to bioarchaeology; the study of human skeletal remains contextualized in the larger archaeological and historic record. Bioarchaeology, as a specialization in anthropology, is the integration of theory and methods from biological anthropology and archaeology. In this course the human body is understood from a biocultural perspective. A wide range of topics including mortuary archaeology, paleopathology, trauma and violence, paleodemography, population genetics, and use of the body as material culture is covered. This course also emphasizes ethical and legal considerations for bioarchaeological research and its impacts on living cultures, as well as the practitioner.

## ANT 3860 - Paleopathology

**Credits:** 3

**Prerequisite(s):** ANT 1010 or permission of instructor

**Description:** This course is an examination of how anthropologists utilize current techniques and information in the analysis and discovery of disease, diet and injury on fossil and human skeletal material. Analysis of archaeological techniques and impact of mortuary practices are reviewed. Students practice various methods for analysis of skeletal pathology and demography.

## ANT 4100 - Biological Anthropology Research Design

**Credits:** 3

**Prerequisite(s):** ANT 1010 and a minimum of six hours of upper-division anthropology coursework or permission of instructor

**Description:** This course addresses research design and methods used in biological anthropology. The majority of these methods involve measurement and analysis of human anatomical variation. Students practice anthropometric and osteometric measurement techniques. Students study human osteology with a specific focus on estimation of age, sex, stature, and ancestry. Additional research methods including microscopy, photography, and computer-based imaging modalities are also addressed. Students review basic univariate and multivariate statistics and their role in biological anthropology research. Literature reviews, data collection protocols, and dissemination of results are also covered. Students use knowledge gained in this course to design and conduct a research

project.

**University Requirement(s):** Senior Experience

## ANT 4251 - Advanced Ethnographic Field Experience

**Credits:** 3

**Prerequisite(s):** Senior Standing

**Description:** This course covers key issues in ethnographic field design, including ethics, participant and observer identities and voices, data collection methods and analysis, and the value of the holistic perspective in anthropology. Course content, class discussions, and research experience prepare students in conducting their own ethnographic projects.

**University Requirement(s):** Senior Experience

## ANT 4400 - Current Issues in Anthropology: Variable Topics

**Credits:** 1-6

**Prerequisite(s):** Permission of instructor

**Description:** This course is an examination of current issues in one or more sub-fields of anthropology. Each section covers a different area of anthropology. The course may be repeated under different topics for up to 6 credit hours.

*Note: Variable Credit*

*This course is repeatable for a maximum of six semester hours.*

## ANT 4710 - Advanced Archaeological Research

**Credits:** 3

**Prerequisite(s):** Senior Standing and ANT 1650 or ANT 2710 or permission of instructor

**Description:** This course addresses research design and methods used in archaeology. Students practice hands-on methods such as surface survey, excavation, and/or lab methods including bone, ceramic, lithic, and archival analysis. This course may be repeated for up to a maximum of six hours. No more than three credit hours may be applied toward a major or minor in anthropology.

**Field Trips:** Potential trips include archaeological sites and museums. Personal field equipment may be required (tape measures, gloves, etc.).

**University Requirement(s):** Senior Experience

## Architecture

### ARCH 2001 - Introduction to Architecture

**Credits:** 3

**Prerequisite(s):** CET 1215 with a grade of "C" or better

**Description:** In this course, students will recognize the complexity and beauty of architecture, and develop a specialized area of interest within the field of architecture. The course provides a foundation in the culture of architecture, which students will pursue through affiliated courses on the subject.

### ARCH 2002 - Architectural Design-Studio 1

**Credits:** 3

**Prerequisite(s):** CET 1215 with a grade of "C" or better

**Description:** In this course, students will focus on a practical, residential building design. The small-scale dwelling design will include the overall planning process from creating a basic building concept to its finished plan and documentation.

### **ARCH 2003 - Building Structures**

**Credits:** 3

**Prerequisite(s):** CET 1215 or IND 1450 or MET 1200 or permission of instructor

**Description:** The focus of this course will be on the importance of collaboration between related fields in the building industry, development of the architectural and building structural knowledge of students and encouraging creative design integration through class projects. The short introduction of the history of Building Information Modeling - BIM aims to give the basic review knowledge for the students about BIM and to possibilities of its application in the future.

### **ARCH 3001 - Architectural Interior Design**

**Credits:** 3

**Prerequisite(s):** ARCH 2002 with a grade of "C" or better

**Description:** In this course, students will focus on the dual nature of interior design and architecture. One part will reveal how interior design is an integral part of complex architecture; the other part will show how interior design is independent. The main goal is for students to gain experience in interior design and the exciting world of object design.

### **ARCH 3002 - Architectural Design-Studio 2**

**Credits:** 3

**Prerequisite(s):** ARCH 2002 with a grade of "C" or better

**Description:** This course provides a knowledge base in the theory and practice of architecture and urban design, focusing on complex architectural issues. Students will explore the relationship of public building design and urbanism. Students will gain insight into the connections between architectural projects and urban design, and overview urban planning history from its beginnings to the present. Students learn to create large-scale, urban-development projects through case studies that demonstrate design precedents, to procedure, to implementation.

### **ARCH 3003 - Digital Presentations in Architecture**

**Credits:** 3

**Prerequisite(s):** CET 1215 with a grade of "C" or better or permission of instructor

**Description:** The course introduces students to traditional and contemporary presentation techniques that could be applied to the architecture profession. The goal of the course is to enable students to self-manage their professional life and creatively use different media platforms.

## **Art**

### **ART 1101 - Studio Foundations: 2D**

**Credits:** 3

**Description:** This course introduces the fundamental principles and elements of two-dimensional art and design through a survey of concepts, techniques, and material practices. Emphasis is placed on critical thinking and creative problem solving through investigations of compositional arrangement, visual perception, studio practice, and the intersections of form and concept in two-dimensional space.

### **ART 1141 - Studio Foundations: Drawing**

**Credits:** 3

**Description:** This course introduces drawing as the common denominator to all art-making media. Students practice fundamental drawing skills by employing a variety of black and white media and techniques through line, shape, value and texture. Coursework emphasizes conceptual and technical abilities, as well as visual perception and problem solving.

### **ART 1212 - Non-Majors Ceramics: Handbuilding**

**Credits:** 3

**Description:** This course introduces students to the basic hand-building techniques and technical knowledge required to work and fire ceramics. Students develop both a conceptual understanding and practical knowledge of the ways in which three-dimensional ceramic form functions. Lectures and visual presentations explore historical and contemporary approaches to ceramics. This course is restricted to non-Art majors.

### **ART 1213 - Non-Majors Ceramics: Wheelthrowing**

**Credits:** 3

**Description:** This ceramics course focuses on wheel throwing as an expressive tool with which students develop their ceramic techniques of thrown and altered forms. Students investigate traditional vessel making, as well as thrown and altered sculptural and functional objects. Topics of study include contemporary and historical wheel-thrown objects and an introduction to high-fire, atmospheric firing. This course is restricted to non-Art majors.

### **ART 1251 - Jewelry and Metals for Non-Art Majors**

**Credits:** 3

**Description:** Restriction: Course restricted to non-Art majors  
This course explores traditional and contemporary approaches to the creation of handcrafted jewelry and precious or semiprecious metal objects. The course will introduce basic casting and fabricating techniques such as hollow construction and surface embellishment.  
**This course is restricted to non-Art majors.**

### **ART 1261 - Painting for Non-Art Majors**

**Credits:** 3

**Description:** Restriction: Course restricted to non-Art majors

This course explores acrylic painting techniques and materials. Students study composition, the use of color, and design elements and principles. **This course is restricted to non-Art majors.**

#### **ART 1271 - Film Photography for Non-Majors**

**Credits:** 3

**Description:** This course introduces basic photographic problem-solving focused on technical and aesthetic concerns while addressing the history of photography. Students learn black and white film exposure, development and printing. This course is restricted to non-art majors.

#### **ART 1273 - Digital Photography for Non-Art Majors**

**Credits:** 3

**Description:** This course introduces basic digital photographic strategies for image making focused on technical and aesthetic concerns while addressing how photographic images function in visual culture. Students learn image capture, fundamentals of basic camera functions, processing, manipulation and printing of digital image files, and maintenance and archiving of a digital archive. Contemporary photography topics are integrated into the curriculum through assignments and related independent research. This course is restricted to non-art majors.

#### **ART 1300 - Woods: Materials and Fabrication**

**Credits:** 3

**Description:** An introductory course designed to give the student basic information about wood material properties, species selection criteria, practical design applications, and ordering and specifying protocol. The design process is presented and applied in the development of a furniture design and fabrication plan, which is utilized to construct design.. The course also provides instruction for basic skill development in the use of wood working tools, machines, and processes. Wood finishing materials and processes are also studied and utilized in student projects.

*Note: Credit will be granted for only one prefix: ART or IND.*

**Cross Listed Course(s):** IND 1010

#### **ART 1501 - Studio Foundations: 3D**

**Credits:** 3

**Description:** This course examines the fundamental principles of three-dimensional art and design through a survey of concepts, techniques, and material practices. Emphasis is placed on critical thinking and creative problem solving through investigations of physical form, process, context, and studio practices.

#### **ART 1505 - The Visual Journal**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** None

**Description:** This course focuses on developing a series of thematic concepts within the visual journal. These thematic assignments function as points of departure for students to research and develop their subject matter. Students generate journals that serve as vehicles

for growth as well as experimentation with non-traditional media. This is an integrated media course.

#### **ART 1531 - Studio Foundations: 4D**

**Credits:** 3

**Description:** This course introduces the fundamental principles of four-dimensional art and design through a survey of concepts, techniques, and technological practices. Emphasis is placed on critical thinking and creative problem solving through investigations particularly relevant to four-dimensional art and design; that is, form and innovation in technological environments, time and motion, ephemerality, and four-dimensional studio practices.

#### **ART 2611 - Beginning Ceramics: Handbuilding**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1141, and ART 1501 with C- or better in each; or permission of the department

**Prerequisite(s) or Corequisite(s):** ARTH 1700, ART 1531, and ART 1101; or permission of the department

**Description:** This course introduces students to the basic hand-building techniques and technical knowledge required to work and fire ceramics. Students develop both a conceptual understanding and practical knowledge of the ways in which three-dimensional ceramic form functions.

#### **ART 2613 - Beginning Ceramics: Wheelthrowing**

**Credits:** 3

**Prerequisite(s):** ART 1141, ARTH 1600, and ART 1501 with C- or better in each prerequisite; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700, ART 1531, and ART 1101; or permission of department

**Description:** This course focuses on the potter's wheel to investigate conceptual and utilitarian ideas associated with vessel and sculpture making. Students investigate both traditional and contemporary approaches to working with ceramics. In addition to building skill on the potter's wheel, topics of study include contemporary and historical uses of the potter's wheel and an introduction to high fire atmospheric firing. Assigned projects are given in sequence with the underlying goal of building toward fluid proficiency with use of the potter's wheel and of ceramic materials.

#### **ART 2641 - Color Drawing: Wet and Dry**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, ART 1141 and ART 1531 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700 and ART 1501; or permission of department

**Description:** This course introduces students to color theory and various techniques employing colored pencil, water-media, and pastel while expanding upon graphite skills. Coursework emphasizes conceptual and technical abilities, as well as visual perception and problem solving.

#### **ART 2643 - Figure Drawing: Wet and Dry**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, ART 1141, and ART 1531 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700 and ART 1501; or permission of department

**Description:** This course emphasizes the human form through observational rendering from live models. Students examine human anatomy, both structural and muscular systems, through both in-class exercises and assigned homework. Both wet and dry applications are investigated; as are black and white media, color media, and conceptual development. Historic and contemporary artists and themes are reviewed and inspected through lectures, critiques and outside assignments.

### **ART 2651 - Beginning Jewelry and Metalsmithing**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, and ARTH 1600; or permission of department.

**Prerequisite(s) or Corequisite(s):** ART 1531 and ARTH 1700; or permission of department

**Description:** This course introduces basic jewelry and metalsmithing materials and processes. Basic fabrication and casting techniques including surface embellishment, forming, soldering, stone setting and wax carving are introduced. Through the creation of thematic projects, students explore traditional and contemporary approaches to metalsmithing and designing artworks for the body.

### **ART 2661 - Beginning Painting: Acrylic and Oil**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, and ART 1141 with C- or better in each; or permission of the department

**Prerequisite(s) or Corequisite(s):** ARTH 1700, ART 1501, and ART 1531; or permission of department

**Description:** This course introduces students to both traditional and contemporary painting practices employing various materials, techniques and processes specific to the field. Students develop both a conceptual understanding and practical knowledge through material exploration and experimentation. Essential skill development includes identifying and applying color theory principals, perceptual skill refinement, and analysis and use of art elements and design principles as a visual language to create expressive works. Historical and contemporary works of influential styles and movements in painting are explored throughout the course.

### **ART 2666 - Beginning Painting: Watermedia**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, and ART 1141 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700, ART 1501, and ART 1531; or permission of department

**Description:** This course introduces students to the fundamentals of transparent watermedia painting as a medium for creative expression. Coursework begins the development of creative and technical skills through a series of structured watermedia projects. Visual problem solving, individualized approach to content and the expression of ideas are stressed.

### **ART 2671 - Beginning Photography: Film and Darkroom**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, ART 1141, and ART 1531 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700 and ART 1501; or permission of department

**Description:** This course introduces basic photographic strategies for image making with technical and aesthetic concerns while gaining an understanding of how photographic images function conceptually. Students learn fundamentals of basic camera functions, processing of black and white film, and darkroom printing techniques. Photographic history is integrated into the curriculum through assignments and related independent research.

### **ART 2673 - Beginning Photography: Digital**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, ART 1141, and ART 1531 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700 and ART 1501; or permission of department

**Description:** This course introduces basic photographic strategies for image making with technical and aesthetic concerns, while gaining an understanding of how photographic images function conceptually. Students learn image capture, fundamentals of basic camera functions, processing, manipulation and printing of digital image files. The maintenance and archiving of digital images is also addressed. Photographic history and contemporary photographic practice is integrated into the curriculum through assignments and related independent research.

### **ART 2682 - Beginning Printmaking: Screen Printing and Relief**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, and ART 1141; or permission of department

**Prerequisite(s) or Corequisite(s):** ART 1501, ART 1531, and ARTH 1700; or permission of department

**Description:** Students in this course develop knowledge and skills of traditional and contemporary fine art processes of screen printing, also known as silkscreen, and relief printmaking, such as linoleum print and woodcut. Students gain skill in using various methods of layering and image generation in order to explore artistic challenges. Emphasis is placed on technical, aesthetic, and conceptual development through readings, lectures, demonstrations, critique, and material experimentation.

### **ART 2691 - Beginning Sculpture: Woods and Assembly**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, and ARTH 1600 with a C- or better in all prerequisites; or permission of department

**Prerequisite(s) or Corequisite(s):** ART 1531 and ARTH 1700; or permission of department

**Description:** This course explores fundamental object making and spatial practices through conceptual and thematic projects. These projects address a variety of basic material, strategic, and technical

processes including wood construction using dimensional lumber, plywood sheeting, and hardwood species; acrylic sheeting; two-axis CNC wood routing; laser cutting; assemblage & found materials; multiples; fibers & fabrics; inflatables; and objects in context. Emphasis is placed on contemporary artists and theories as a framework for the creation of objects and environments.

### **ART 2693 - Beginning Sculpture: Metals and Fabrication**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501 and ARTH 1600 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ART 1531 and ARTH 1700; or permission of department

**Description:** This course explores fundamental object making and spatial practices through conceptual and thematic projects. These projects address a variety of basic material, strategic, and technical processes, including metal fabrication using ferrous sheet, rod, and tube metals; cold fastening; welding; multiples; assemblage; 3D printing; light; sound; site; and interactivity. Emphasis is placed on contemporary art practices, including the role of criticism and critique as it informs studio development.

### **ART 2781 - Lithography**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ART 1101, and ART 1141 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ART 1501, ART 1531, and ARTH 1700; or permission of department

**Description:** Students develop knowledge and skills of traditional and contemporary fine art lithography printmaking processes through a series of thematic projects that address invention, problem solving, medium experimentation, technical skills, research, and criticism. Through projects, students are provided a working understanding of the principles of stone, plate, and the photo lithography process, including multi-matrix color printing. Students gain knowledge through readings, lectures, and demonstrations, including the examination of historical and contemporary lithographic prints and the commercial and fine art application of the media.

### **ART 3101 - Professional Practices I**

**Credits:** 1

**Prerequisite(s):** ART 1101 or ART 1141 or ART 1501 with C- or better; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1600, ARTH 1700, ART 1101, ART 1141, and ART 1501; or permission of department

**Description:** This course introduces students to options, expectations, and preparations for an art career. This course combines guest speakers, site visits, and studio reflection. Students learn to explore, write and think about their artwork in a career-building context.

### **ART 3215 - Moldmaking and Casting**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, and ARTH

1700, or permission of department

**Prerequisite(s) or Corequisite(s):** ART 2611 or ART 2613 or ART 2641 or ART 2643 or ART 2651 or ART 2661 or ART 2666 or ART 2671 or ART 2673 or ART 2681 or ART 2682 or ART 2691 or ART 2693, or IND 2450, or permission of department

**Description:** This course explores the creation and use of molds from three-dimensional objects for reproduction. While primarily making plaster molds for use with slip-cast clay, students also explore rubber, urethane, and silicone molds for use in casting a variety of traditional and non-traditional materials, such as paper, silicone, soap, etc. This course explores the application of these techniques in professional ceramic production, by designers and in industry. The use of these techniques by contemporary artists for both technical and conceptual reasons is explored and discussed. This is an integrated media course.

### **ART 3235 - Video Art**

**Credits:** 3

**Prerequisite(s):** ART 1531 with C-; or better; plus either ART 1101, ART 1141, ART 1501, and ARTH 1600; or JMP 2430 and JMP 1000; or permission of department.

**Description:** This course combines video production with a critical examination of experimental video and time-based media as an art form, cultural tool, and social practice. Through studio practice, screenings, readings, and critiques of student work, students examine the diverse languages and practices of video and time-based media within a contemporary context. Students experiment with monitors, projectors, and other media while addressing concerns of site and scale, issues of narrative, identity, reception, audience, and private/public space. Students learn the technical and conceptual aspects of production and develop individual aesthetic, analytic, and critical skills. This is an integrated media course.

### **ART 3244 - Advanced Figure Drawing**

**Credits:** 3

**Prerequisite(s):** ART 2643 with a "C-" or better or permission of the department

**Description:** This course requires the student to apply knowledge of human anatomy to drawing the human figure. Students extend conceptualization skills and expand use of varied media and techniques.

*Note: This course may be repeated once for a maximum of six semester hours.*

### **ART 3266 - Community Painting: The Mural**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, and ARTH 1700; and ART 2661 or ART 2666 with C- or better in each; or permission of department

**Description:** This studio art course briefly surveys the history of murals and the mural movement. A site is located at an agency or business in the Denver metro community where a mural is to be painted. A series of designs and concepts are then researched and proposed by the students for approval by the site agency or business. Students work as a team and collaborate to complete the approved mural concept.

*Note: This course is repeatable once for a maximum of six semester hours.*

### **ART 3301 - The Artist's Book**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, and ART 1531 with "C-" or better in each; or permission of department.

**Description:** This studio course deals with the book as an art object, emphasizing structure, craft and conceptual ideas. Students build various traditional and non-traditional book types and provide display methods for books in an exhibition context. This is an integrated media course.

### **ART 3391 - Fiber Structures**

**Credits:** 3

**Prerequisite(s):** ARTH 1700, ART 1101, ART 1141, ART 1501; and ART 1531 or IND 2100 with "C-" or better in each; or permission of department.

**Description:** Students in this course investigate traditional fiber techniques, such as crocheting, netting, weaving, lashing, felting, and papermaking, with an emphasis on their role in the contemporary art and design practice. Lectures demonstrate these traditional techniques using a variety of traditional and non-traditional materials and strategies while highlighting contemporary artists and theory. This is an Integrated Media course.

### **ART 3393 - Electronics and Experimental Systems**

**Credits:** 3

**Prerequisite(s):** ARTH 1700, ART 1101, ART 1141, ART 1501; and ART 1531 or IND 2100 with "C-" or better in each; or permission of department.

**Description:** This course introduces basic electronics, mechanics, open source hardware, and simple software coding for the creation of artwork. The history and theory of experimental systems within a contemporary art and design context are discussed. Projects address movement, light, sound, space, context, behavior, agency, and interactivity. This is an integrated media course.

### **ART 3500 - Site Specific Studies in Studio Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ART 1101 or ART 1141 or ART 1501 or ART 1531; or permission of department

**Description:** Students in the course travel to a city or a region in order to experience art and creative making in response to the location. Emphasis is placed upon the contemporary, historical, geographical, and philosophical context of the exhibition spaces, cultural sites, public spaces, and other works of art visited or viewed. Variable topics; may be repeated for up to 9 credits under different topics.

*Note: Variable topics; may be repeated for up to 9 credits under different topics.*

### **ART 3591 - Digital Fabrication**

**Credits:** 3

**Prerequisite(s):** ARTH 1700, ART 1101, ART 1141, ART 1501; and ART 1531 or IND 2100 with "C-" or better in each; or permission of department.

**Description:** This course introduces the spatial and contextual application of digital, three-dimensional modeling and rapid prototyping technologies for the creation of artwork. Data acquisition, modeling, and visualization is explored through the artistic application of 3D scanning, computer modeling, and laser cut or solid free form fabrication. This is an integrated media course.

### **ART 3612 - Intermediate Ceramics**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, AND ART 2611 OR ART 2613 with C- or better in each prerequisite; or permission of department

**Description:** This course addresses the broad range of perspectives found in historical and contemporary ceramic art, including sculpture, vessel making, and pottery. Emphasis is on the full integration of creative works within the complex array of studio choices such as clay, glaze, and firing temperatures. Students become fully independent in the ceramics studio through an exploration of firing theory, clay, and glaze chemistry, as well as the conceptual and theoretical development of creative works.

*Note: This course is repeatable twice for a maximum of nine semester hours.*

### **ART 3613 - Pattern Networks**

**Credits:** 3

**Prerequisite(s):** ART 2611, or ART 2651, or ART 2671, or ART 2681, or ART 2691, or CDES 2225; or permission of department.

**Description:** This course introduces traditional texts on ornamentation and pattern theory, as well as seminal texts on networks and city planning as the basis for making artwork. Employing a research-based practice, students make creative work of varying media that shares an exploration of patterning, ornamentation, and additional organizational structures. The course examines and demonstrates traditional strategies and the role of this subject in contemporary art, craft and design practice. This is an integrated media course.

### **ART 3637 - Socially Engaged Art**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better in each; or permission of department.

**Description:** This course introduces students to the field of socially engaged art through an emphasis on conversations, communities, situations, participation, places, aesthetics, and activism. Course content demonstrates the increasing use of relational and dialogical aesthetics informing conceptual and formal structures in contemporary art and design. Socially Engaged Art adopts a field-based model for its curriculum that is designed to provide students with opportunities to work contextually in a variety of public spheres. This is an Integrated Media course.

### ART 3639 - Performance Art

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better in each; or THE 2210 or MUS 2130; or permission of department

**Description:** This course explores performance as a major paradigm informing the methods and languages of contemporary practices in art and design. Emphasis is placed on border crossings, porous disciplines, and contingent identities as a central component in performance-based studio practice. Lectures and discussions engage the historically shifting nature of embodiment in contemporary art and design. This is an integrated media course.

### ART 3642 - Intermediate Drawing

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700 AND ART 2641 OR ART 2643 with C- or better in all prerequisites; or permission of the department

**Description:** This course examines the expanded field of contemporary drawing through experimentation with nontraditional materials, as well as readings and discussions. Emphasis is on creating artwork based on thematic projects and serial production. Students critically assess their material selection and how it supports the artwork content.

*Note: This course is repeatable twice for a maximum of 9 semester hours.*

### ART 3652 - Intermediate Jewelry and Metalsmithing

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, and ART 2651, or permission of department.

**Description:** Students in this course develop skills in jewelry design and metalsmithing while addressing a broad range of related formats, themes, and topics. Students generate functional, sculptural and/or wearable works through the application of intermediate and advanced level techniques, such as fabrication, chasing, die forming, raising, and stone setting. Emphasis is placed on individual research, conceptual inquiry, compositional development and critical analysis.

*Note: This course is repeatable twice for a maximum of nine semester hours.*

### ART 3653 - Miniature Casting Methods

**Credits:** 3

**Prerequisite(s):** One of the following: ART 1251, ART 2651, ART 2611, ART 2613, ART 2691, ART 2693, IND 1250, or IND 2450; or permission of department

**Description:** Students in this course are introduced to historical and contemporary practices of small-scale casting techniques. Processes such as lost-wax casting processes, alternative direct casting methods and mold making are applied to the creation of individualized projects. Emphasis is placed on individual research, conceptual inquiry, compositional development and critical analysis.

### ART 3655 - Enameling Processes

**Credits:** 3

**Prerequisite(s):** ART 1251, ART 2651, ART 2611, ART 2613, ART 2691, ART 2693, IND 1250, or IND 2450; or permission of department.

**Description:** Students in this course explore contemporary and historical practices in the process of enameling. The course applies various enameling techniques to the creation of art metal objects. Techniques include cloisonné, champlevé, and plique-à-jour, among others. Emphasis is placed on individual research, conceptual inquiry, compositional development and critical analysis.

*Note: This course is repeatable once for a maximum of six semester hours.*

### ART 3662 - Intermediate Painting

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700; and ART 2661 or ART 2666 with C- or better in each; or permission of department

**Description:** This course further explores the concepts and techniques in painting, emphasizing the individuation of students' pictorial language, including various approaches from representational to abstract painting. Development of individual themes, through independent studio practice, allows for creative problem solving through the pictorial representation of ideas. Thematic discussions pertaining to topics in historical and contemporary painting inform studio artwork production.

*Note: This course is repeatable for a maximum of 9 semester hours.*

### ART 3663 - Painting and New Contexts

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700; and ART 2661 or ART 2666 with C- or better in each; or permission of department

**Description:** This course explores innovative and emergent approaches to painting within the context of contemporary art practices. Emphasis is on nontraditional approaches to painting through an exploration of materials and techniques. Students learn to question assumptions about the practice of painting, creating works that allow them to explore the use of alternative approaches to paint media through the implementation of various tools and technologies. This is an integrated media course.

### ART 3666 - Advanced Watermedia

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700 and ART 2666 with C- or better in each; or permission of department

**Description:** This course explores advanced transparent and opaque watermedia, as well as mixed media techniques. Students learn to choose techniques and media to enhance their expressive content. Course emphasis is on developing a unique, individualized approach to content and media expression.

*Note: This course is repeatable once for a maximum of six semester hours.*

### **ART 3672 - Intermediate Photography**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700 and ART 2671 OR ART 2673 with C- or better in all prerequisites; or permission of department

**Description:** This course provides a thematic forum for intermediate level students to develop critical skills as they relate to contemporary practices in the field of photography and lens-based media. Students refine their technical and critical proficiency using methods and processes relevant to image-making. Engaged in an innovative learning environment, students connect research and theory to their creative projects.

*Note: This course is repeatable for a maximum of nine semester hours of credit.*

### **ART 3677 - Experimental Photography**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1531, and ART 2671 or ART 2763 with "C-" or better in each; or permission of department

**Description:** Students in this course learn alternative photographic techniques utilizing historical, non-silver and silver-based processes. The term alternative process is generally used to describe 19<sup>th</sup> century approaches to photographic printmaking; contemporary photography is experiencing a renaissance in the use of traditional methods applied in hybrid and/or interdisciplinary practices. This course includes the use of low-tech and handmade cameras, the production and integration of digital negatives, and combining wet and digital lab processes. Students go beyond technical knowledge to critically assess the reasons for using alternative processes conceptually in their creative practice. Slide lectures, technical demonstrations and hands-on labs as well as readings, discussions and regular critiques all contribute to a practice that is conceptually and theoretically rich. This course is designated as Integrated Media.

### **ART 3682 - Intermediate Printmaking**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700 and ART 2682; or permission of department

**Description:** Students in this course develop knowledge and skills of traditional and contemporary fine art printmaking processes with an emphasis on building skills in relief and screen printing, and introducing students to lithography. Students explore and expand technical and conceptual skills through thematic projects while learning various historical and contemporary techniques. Emphasis is on an advanced level of technical and conceptual proficiencies through thematic projects while becoming more independent in the studio. Further exploration with traditional and alternative printmaking outcomes lead to initial developments towards an independent body of work.

*Note: This course is repeatable for a maximum of 9 total semester hours of credit.*

### **ART 3692 - Intermediate Sculpture**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700 and ART 2691 OR ART 2693 with C- or better in all prerequisites; or permission of department

**Description:** This course focuses on developing individual studio production while responding to themes most relevant to contemporary art theory and practice. Students explore the materials and techniques most appropriate to their needs while working toward the development of a cohesive body of work. Students are encouraged to explore work that is ambitious, experimental, and challenging; work that pushes both technical and conceptual boundaries. Topics include: artwork in context; the role of new materials in contemporary art; the document as primary object; systems in art; and issues of temporality and ephemera.

*Note: This course is repeatable for a maximum of nine semester hours of credit.*

### **ART 3701 - Professional Practices II**

**Credits:** 2

**Prerequisite(s):** ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1531, and ART 3101; or permission of department.

**Prerequisite(s) or Corequisite(s):** ART 2611 or ART 2613 or ART 2641 or ART 2643 or ART 2651 or ART 2661 or ART 2666 or ART 2671 or ART 2673 or ART 2682 or ART 2691 or ART 2693; or permission of department.

**Description:** This course investigates studio professional practice through a series of studio visits, guest lectures from visiting artists and studio based explorations; students discuss and further develop career building in the arts. Emphasis is placed on research, execution and refinement of studio-based practices in an interdisciplinary learning environment. Students begin the process of interweaving studio-based practices with academic research, establishing an outline for future professional practice.

### **ART 3711 - Current Practices in Ceramics**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1411, ART 1501, and ARTH 1700; or permission of department

**Prerequisite(s) or Corequisite(s):** ART 2611 OR ART 2613 OR ART 2641 OR ART 2643 OR ART 2651 OR ART 2661 OR ART 2666 OR ART 2671 OR ART 2673 OR ART 2682 OR ART 2691 OR ART 2693; or permission of department

**Description:** Students in this course focus on experimental, non-traditional techniques associated with thematic and conceptual practices that are relevant to contemporary studio ceramics today. Students investigate new modes of creating work through experimentation and collaboration across media, including installation, the sculptural object, time-based work, performance, material-based issues, Claymation, and video/digital technologies with presentations, readings, research and creative assignments. Through these topics, students begin to integrate media and creative strategies that are relevant to their individual creative practices within an interdisciplinary context. This is an Integrated Media course.

### **ART 3980 - Internship in Art**

**Credits:** 1-15

**Prerequisite(s):** Major in art; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **ART 4030 - Variable Topics in Integrated Media**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 with C- or better; or permission of department

**Prerequisite(s) or Corequisite(s):** One of the following: ART 3612, ART 3642, ART 3652, ART 3662, ART 3672, ART 3682, ART 3692; or permission of department

**Description:** This course provides a thematic forum for advanced level students of any art concentration to develop critical skills as they relate to contemporary practices in the field of integrated media. Students refine their critical and technical proficiency using interdisciplinary methods and techniques to art design and making. Students engage in innovative, creative, and theoretical techniques within a cross-disciplinary and hybrid studio environment. This is an integrated media course.

*Note: This course may be repeated under different topics for up to 6 credits total.*

### **ART 4101 - Advanced Interdisciplinary Studio**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, and ART 3612 or ART 3642 or ART 3652 or ART 3662 or ART 3682 or ART 3672 or ART 3692 or permission of department

**Description:** This course provides a critical forum for students in advanced-level art areas to develop their work in an interdisciplinary context. Students implement skills acquired through intermediate courses by preparing a mature, cohesive body of work for exhibition, graduate school application, or professional practice. The course emphasizes the relationship of the artist to broader cultural, social and theoretical contexts. Students investigate artwork employing various methods of critique as it informs the artistic practice.

*Note: This course is repeatable once for a maximum of six semester hours.*

### **ART 4601 - Installation Art**

**Credits:** 3

**Prerequisite(s):** One of the following with C- or better: ART 3612, ART 3637, ART 3639, ART 3642, ART 3652, ART 3662, ART 3663, ART 3672, ART 3682, ART 3692, ART 4643, or ART 4644;

or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 2080 or permission of department

**Description:** This course explores the potential of immersive or sensory experiences through artwork that engages site, space, and context. A diverse selection of objects, materials, and techniques may be utilized through group and individual installations; these environments may range in scale from the intimate to the expansive. Demonstrations and discussions trace the lineage of installation art emphasizing contemporary spatial practices. This is an integrated media course.

### **ART 4643 - Drawing in Space**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700; and ART 2641 or ART 2643 with C- or better in all prerequisites; or permission of department

**Description:** This course examines alternative applications to drawing in space. Students create artworks with traditional, as well as non-traditional, media through a series of assignments that stipulate required space. Assigned thematic projects generate resolutions between concepts and resources in creating multi-dimensional drawings. This is an integrated media course.

### **ART 4644 - Drawing Identity**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700; and ART 2641 or ART 2643 with C- or better in all prerequisites; or permission of department

**Description:** This course explores the fundamentals of portraying identity through an anatomical examination of facial structure, as well as body language, clothing, body ornamentation and cultural influences. It surveys the notion of "ideal beauty" historically and in contemporary societies. Various cultural canons are discussed and contrasted with today's technology, which provides access to alterations of the face and body. Class dialogue engages moral and ethical questions concerning art, culture and humanity whether virtual or reality. A variety of media and techniques, which embrace literal and inventive explorations of anatomy and surface forms, are explored. Students create through identity-driven projects that serve as points of departure in constructing finished artwork. This is an integrated media course.

### **ART 4701 - Studio Art Senior Experience: Exhibition and Thesis**

**Credits:** 3

**Prerequisite(s):** Completion of all General Studies requirements: BFA in Art or BFA in Art Education major with senior standing; ART 4101 and ARTH 4480 with "C-" or better in each; and permission of department

**Description:** This course completes professional practices at an advanced level and serves as the required senior experience for the Bachelor of Fine Arts in Art and the Bachelor of Fine Arts in Art Education. Students synthesize content from coursework throughout their academic career by articulating their aesthetic style, connecting their artwork to theories and movements in art, and finding links to conceptual and philosophical frameworks of historic and

contemporary artists. Emphasis is placed on students working collaboratively in the organization and installation of their artwork produced specifically for a public thesis exhibition. (Senior Experience)

**University Requirement(s):** Senior Experience

#### **ART 4703 - Student Teaching and Seminar: Elementary K-6**

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements of the concentration in art education including ART 4201, elementary licensure program, and General Studies content courses; successful completion of Gateway requirements for each level (I-IV) of the elementary licensure program, including initial evaluation and sign-off of the program requirements; (e.g., teacher work sample/portfolio) by the education advisor

**Description:** This is a supervised, full-time field experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision and assessment of learners (grades K-6). Five hours of seminar is part of the field experience requirement. To pass this course, teacher-candidates must be minimally rated as proficient in all Performance -Based Standards for Colorado Teachers to receive MSU Denver's recommendation for teacher licensure. Each student teacher is required to present a completed teacher work sample to the college supervisor and peers at a student-teaching seminar.

**University Requirement(s):** Senior Experience

#### **ART 4704 - Student Teaching and Seminar: Secondary 7-12**

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements of the concentration in art education including ART 4201 and the Secondary Education Program; initial sign off on program requirements (e.g., teacher work sample/portfolio) by faculty advisor

**Prerequisite(s) or Corequisite(s):** ART 4703

**Description:** This course is a supervised, full-time, eight-week, student-teaching experience in an accredited public or private secondary school, providing increasing responsibility for the instruction, assessment, and supervision of an identified group of learners, 7-12 grade levels. Regularly scheduled observations and five hours of seminar conducted by an appointed college supervisor are part of the student teaching requirement. Teacher candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSU Denver's recommendation for teacher licensure.

**University Requirement(s):** Senior Experience

#### **ART 4710 - Art Senior Experience**

**Credits:** 3

**Prerequisite(s):** Satisfaction of Written Communication, Oral Communication, and Qualitative Literacy course requirements. Art major with senior standing; ARTH 2600 and ARTH 2080 with "C-" or better in each; at least 9 additional credits of upper-division ART courses; and permission of department.

**Description:** Students in this course synthesize ideas developed in art and the chosen minor coursework. Within these combined domains, students find a problem or question to investigate within their studio

art practice. Using academic methods and resources to support research, students externalize the integration of these concepts through their visual art, a research paper, and a public presentation. This is a Senior Experience course.

**University Requirement(s):** Senior Experience

#### **ART 4801 - Studio Assistantship**

**Credits:** 1-4

**Prerequisite(s):** Permission of instructor

**Description:** This studio course allows the advanced student to put into use the studio skills learned in previous courses to assist faculty and other students through demonstrating and critiquing. Students will learn to run laboratories, maintain tools and equipment, mix chemicals (if appropriate), and handle and stock supplies in an appropriate manner. They will demonstrate techniques and assist other students with technical and creative questions.

*Note: (Variable credit: course may be repeated once for a maximum of six hours of credit in a different studio area or with significantly different duties.)*

#### **ART 4841 - Directed Studies in Studio Art**

**Credits:** 1-4

**Prerequisite(s):** ART 4101 or permission of the department

**Description:** Students in the course produce advanced, independent studio work with emphasis on the production of finished work. The students integrate techniques, materials, and skills learned in previous courses to develop an individual style and create a coherent body of work.

*Note: Variable credit*

#### **ART 4842 - Directed Studies in Communication Design**

**Credits:** 1-4

**Prerequisite(s):** ART 4241 or ART 4244 with "C-" or better; and permission of department

**Description:** This course provides advanced, independent studio work in communication design with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques and skills learned in previous courses to develop an individual voice and create a coherent body of work.

*Note: Variable credit: this course may be repeated once for a maximum of six semester hours total credit.*

#### **ART 4873 - Photography Assistantship**

**Credits:** 3

**Prerequisite(s):** ART 2671 and ART 3271 with "C-" or better in each; and permission of department

**Description:** This studio course allows the advanced photography student to serve as teaching assistant to a member of the faculty. The student learns to handle and stock supplies in an appropriate manner and demonstrates techniques and assists other students with technical and creative questions.

### **Art Education**

## **ARTE 2060 - The Arts and Creative Thinking**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 with C- or better; or permission of department

**Description:** This course introduces contemporary ideas and strategies exploring creative thinking informed by the visual arts. Students are exposed to the interconnectedness of creative and critical thinking and develop strategies for thinking that embrace the habits of creativity, dispelling the myth that people are born creative or uncreative. Using the visual arts as an entry point for the development of creative and critical-thinking skills, students learn how to approach problems in novel ways.

**General Studies:** Arts and Humanities

## **ARTE 3601 - Introduction to Art Education: History and Philosophy**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1531 with "C-" or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** EDS 3130, EDS 3140; or permission of department

**Description:** Students in this course study the historical, philosophical, social, political, legal, psychological, and educational concepts that have influenced the development of art education in the United States. The current status of advocacy for the arts and art education within the context of general education is explored.

## **ARTE 3605 - Creating an Inclusive Art Classroom: Curriculum and Instruction**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ARTE 3601 or permission of department

**Description:** Students in this lecture/field experience course address the necessary steps needed to create and implement effective curriculum in an inclusive or mainstreamed art classroom. Students learn about various exceptionalities of pre k-12 students, ranging from mild to severe. The challenge to meet the individualized needs of a diverse student population through effective instruction is explored in the classroom and in the field. During the semester students complete 8 hours of field observations working directly with students, putting into practice the theories discussed in-class. Pre-service art education students develop effective techniques for fostering student engagement, individualization strategies, problem solving, and classroom management techniques while working in an inclusive learning environment.

## **ARTE 4130 - Elementary Art Education: Curriculum and Instruction**

**Credits:** 3

**Prerequisite(s):** ARTE 3601 with "C-" or better; or permission of department

**Corequisite(s):** ARTE 4140 or permission of department

**Description:** Students in this lecture/studio course develop age-

appropriate curriculum and instructional methodologies for teaching that will foster fluency, flexibility and ingenuity in the elementary art classroom. Students draw connections between concepts developed in class, studio practices, and discussions based on observations made in the concurrent field experience, ARTE 4140 - Field Experience: Art Education Elementary. Using these skills, students explore, analyze, and formulate pedagogical strategies necessary to become informed practitioners and advocates within the field of art education.

## **ARTE 4140 - Field Experience: Art Education Elementary**

**Credits:** 1

**Prerequisite(s):** ARTE 3601, EDS 3130, and EDS 3140; with "C-" or better in each; or permission of department

**Corequisite(s):** ARTE 4130; or permission of department

**Description:** Students take this field experience course concurrently with ARTE 4130 - Elementary Art Education: Curriculum and Instruction. During the fifty-hour field experience, preservice art education students work directly with a mentor teacher in the classroom fostering an understanding of the intellectual and artistic growth of elementary school children. In an immersive field experience, application of practical issues such as classroom management, budgeting, and community engagement are experienced by the student, building an informed understanding of pedagogical practices needed for a professional career at the elementary school level. Successful completion of the field experience is in accordance with Teacher Quality Standards and Colorado Academic Standards: Visual Arts.

*Note: This course requires students to attend three hours of seminar during the semester.*

## **ARTE 4230 - Secondary Art Education: Curriculum and Instruction**

**Credits:** 3

**Prerequisite(s):** ARTE 3601 with "C-" or better; or permission of department

**Corequisite(s):** ARTE 4240 or permission of department

**Description:** Students in this course develop age-appropriate curriculum and instructional methodologies for teaching art that foster fluency, flexibility and ingenuity for grades 6-12. Students generate connections between concepts developed in class, studio practices, and discussions based on observations made in the concurrent field experience. Using these skills, students explore, analyze, and formulate pedagogical strategies necessary to become informed practitioners and advocates within the field of art education.

## **ARTE 4240 - Field Experience: Art Education Secondary**

**Credits:** 1

**Prerequisite(s):** ARTE 3601, EDS 3130, and EDS 3140 with "C-" or better in each; or permission of department

**Corequisite(s):** ARTE 4230 or permission of department

**Description:** Students take this field experience concurrently with ARTE 4230 - Secondary Art Education: Curriculum and Instruction. During the fifty-hour field experience, preservice art education students work directly with a mentor teacher in the classroom fostering an understanding of the intellectual and artistic growth of children at the secondary level. In an immersive field experience,

application of practical issues such as classroom management, budgeting, and community engagement are observed by the student, building an informed understanding of pedagogical practices needed for a professional career at the secondary school level. Successful completion of the field experience is in accordance with the Teacher Quality Standards and the Colorado Academic Standards: Visual Arts.

*Note: This course requires students to attend three hours of seminar during the semester.*

#### **ARTE 4701 - Student Teaching and Seminar: Art Education K-12**

**Credits:** 12

**Prerequisite(s):** ART 4701, ARTE 4130, and ARTE 4230 with "C-" or better in each; ARTE 4140 and ARTE 4240; and permission of department

**Description:** Students in this course complete supervised, full-time, sixteen-week, student teaching experience in an accredited public or private elementary and secondary school. During the student teaching experience students take responsibility for the instruction, assessment, and supervision of an identified group of learners at K-12 grade levels. Regularly scheduled observations at both eight-week placements, and ten hours of seminar conducted by an appointed university supervisor are part of the student teaching requirement. Teacher candidates must complete a Teacher Work Sample and be rated as proficient in all Teacher Quality Standards for Colorado teachers to receive MSU Denver's recommendation for licensure.

#### **ARTE 4715 - Professional Practicum in Art Education**

**Credits:** 3

**Prerequisite(s):** ARTE 3601 with "C-" or better and permission of department

**Description:** This elective course addresses the needs of individual, advanced, senior-level students completing the Art Education concentration who want to pursue a focused study of a pedagogical problem. Students reflect upon their prior learning in art education and their studio art concentrations, identifying the interdisciplinary learning connections that they have made through courses that have influenced their professional knowledge in the field of teaching. Evidence of these influential learning connections is documented and presented in a professional portfolio. Students plan, instruct and assess a one-week studio workshop for students in grades K-12.

#### **ARTE 4850 - Directed Studies for Art Educators**

**Credits:** 1-4

**Prerequisite(s):** ARTE 3601 with "C-" or better; and permission of department

**Description:** This course is an interdisciplinary studio art class that addresses the need for art education students and K-12 Art Licensure candidates to link their professional practice as artists with their practice as educators. Students will create a portfolio of work that is conceptually driven, and seek out a variety of materials that will best express their vision. Students will be responsible for scheduling, preparing and presenting their portfolio of work in a professional format as a visiting artist in a K-12 art classroom.

*Note: This course is variable credit and may be repeated once for a maximum of six semester hours total credit.*

## **Art History, Theory and Criticism**

### **ARTH 1500 - Art and Visual Literacy**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or permission of department

**Description:** This course is a general introduction to the tools and methods used to analyze and interpret works of art in a variety of contexts. Students learn how to effectively communicate how visual forms work in conjunction with cultural beliefs both in the past and present. Analytical tools appropriate to the disciplines of art criticism and art history, including the use of research, are used by the student to support interpretations. A variety of artistic traditions, including materials and techniques from across the globe and throughout time, are introduced so that students are prepared to identify and interpret historical and contemporary examples of visual art and design. By developing an awareness of the relationship between visual forms and the messages they convey, students increase their ability to respond critically to their own increasingly complex, visual environment. This course is designed for the non-major and recommended for the General Studies requirement in Arts and Humanities.

*Note: This course is restricted to students who are not majoring in Art, Art Education, Communication Design, or Art History, Theory and Criticism. Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** HON 1500

### **ARTH 1600 - World Art I: Art Prior to 1400**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or permission of department

**Description:** This course is an introduction to the discipline of art history and the tools used to analyze and interpret works of art within their cultural contexts. As the first part of a two-part survey, the course examines art, design and architecture from the prehistoric age through the 14th century throughout a variety of global cultures. Analytical tools appropriate to the disciplines of art history, theory and criticism, including the use of research, are used by the student to support interpretations. This course provides the introductory foundations in art history for students in art, art history, and communication design majors and is recommended for non-majors to meet the General Studies requirements in Arts and Humanities and/or Global Diversity.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** HON 1600

### **ARTH 1700 - World Art II: Art 1400-1900**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010; or permission of department

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course students are introduced to the art, design and architecture created around the world from the 15<sup>th</sup> through the 19<sup>th</sup> centuries. Students learn to research, analyze, and interpret works from the Italian Renaissance to French Impressionism, from Macchu Picchu to the Forbidden City. Students also explore the impact of historical attitudes about gender, power, and identity on artists and their artworks, as well as the influence of global exchanges through networks of trade, religious conversion, and colonization. This course is required for students majoring or minoring in art, art history, and communication design and is recommended for non-majors to meet the General Studies requirements in Arts and Humanities and/or Global Diversity.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** HON 1700

### **ARTH 2080 - Art of the 20th and 21st Centuries**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 AND ARTH 1700 with C- or better or permission of department

**Description:** Students in this course study modern and contemporary art from 1900 to the present. Major critical, intellectual, and aesthetic frameworks are introduced and artistic movements are situated in relation to their cultural contexts. Shifting conceptual definitions of art provide a foundation for understanding contemporary practices, and thus a focus is placed on avant-garde forms of art throughout the period. Students are also introduced to critical debates about art arising out of civil rights, postmodernism, postcolonialism, transnationalism, and globalism.

### **ARTH 2600 - Reading and Writing Visual Culture**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 and ARTH 1600 and ARTH 1700 with "C-" or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 2080 with "C-" or better or permission of department

**Description:** This course teaches students to approach artwork critically in order to construct meaningful interpretations of visual images. Students use models of critical thinking to analyze and critique visual culture, including artworks, images in mass media, websites, etc. Students practice writing effectively about visual culture for a variety of purposes, including research papers, essays, reviews, artists' statements, and abstracts. The intention is that students will use these tools in their upper level coursework and in professional practice.

### **ARTH 3060 - Art and Music for Elementary Teachers**

**Credits:** 3

**Prerequisite(s):** ENG 1020 and at least junior standing; or permission of instructor

**Description:** This course enables students to develop awareness and knowledge of philosophical and aesthetic foundations of the arts with

a specific focus on art and music. Appropriate methods of teaching art and music in the elementary curriculum, including the integration of literacy and mathematics, will be explored. Students will use creative and critical thinking skills to develop artistic sensibility.

*Note: Credit will be granted for only one prefix: ARTH or MUS.*

**Cross Listed Course(s):** MUS 3060

### **ARTH 3210 - Site Specific Studies in Art History: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1500 or ARTH 1600 or ARTH 1700 with a "C-" or better

**Description:** This course consists of student travel to a city or a region in order to experience art and architecture in their intended location. Emphasis is placed upon the historical, geographical, and philosophical context of the monuments, buildings, and other art works visited.

*Note: This course may be repeated for up to 9 credits under different topics.*

### **ARTH 3300 - Multiculturalism and American Art**

**Credits:** 3

**Prerequisite(s):** Satisfaction of oral and written communication requirements; ARTH 1500 or ARTH 1600 or ARTH 1700

**Description:** This course studies the work produced by artists of African American, Asian American, Latino/a American, and Native American ancestry and their contribution to art in the United States during the 20<sup>th</sup> and 21<sup>st</sup> centuries. Students will be introduced to the artistic legacies of Africa, Asia, and the Americas and how they intersected with European and New World contexts to provide a dynamic and rich multicultural creative discourse. American artists whose creative activity reflects their varied and complex cultural heritages will be the focus, and students will analyze how bias and discrimination in the art world and culture at large have impacted the artists' reception. In addition, students will discover how artists have contributed to modern and contemporary social, cultural, and aesthetic debates.

*Note: Credit will be granted for only one prefix: ARTH or NAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 3301

### **ARTH 3310 - African Art**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; or permission of department

**Description:** This course examines the art of the continent of Africa and evaluates the ways it has been studied and displayed. It traces historical relationships between regions, from the shores of the Mediterranean and the Nile Valley, the west and Ivory Coast, to the central regions and east and south to the Swahili Coast and the Cape.

*Note: Credit will be granted for only one prefix: ARTH or AAS.*

**Cross Listed Course(s):** AAS 3310

### **ARTH 3330 - Egyptian Art**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; or permission of department

**Description:** This course examines Egyptian art from the beginning of civilization in Kemet (the Black Land) through Greek, Roman, and Byzantine periods, and continuing into the Islamic period.

*Note: Credit will be granted for only one prefix: AAS or ARTH.*

**Cross Listed Course(s):** AAS 3330

#### **ARTH 3340 - Asian Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 and ARTH 1700 with "C-" or better; or permission of department

**Description:** This course is a survey of the art of India, China, and Japan. It includes a study of the cultural, historical, and religious factors that have influenced the development of visual cultures in these three particular civilizations. A key theme is the interaction among cultural traditions not only within India, China, and Japan but also through international processes of trade, colonialism, and nationalism. Special attention is placed on works found in the Denver Art Museum.

#### **ARTH 3360 - Contemporary Chicana/o Art**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; or permission of department

**Description:** This course is a survey of contemporary Chicana/o art. The historical, religious, social and political contexts of the artworks are studied. Students examine recurrent themes, icons, imagery, and forms within the historical timeline. This course may not be used as the sole art history elective for art studio majors.

*Note: Credit will be granted for only one prefix: ARTH or CHS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 3025

#### **ARTH 3385 - Feminist Art Since 1960**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 or GWS 1001 with "C-" or better; Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; or permission of department

**Description:** This course examines the various intersections between art and feminism beginning with the rise of second-wave feminist politics and continuing to the present. Work by artists who self-consciously identified as feminist or work that has been meaningfully read through feminist theories is the focus. The course covers competing and diverse definitions of feminism and analyzes the ways race, class and gender are intertwined and represented by artists globally. Students evaluate art's relationship to changing social, political, and philosophical conditions throughout the period.

*Note: Credit will be granted for only one prefix: ARTH or GWS.*

**Cross Listed Course(s):** GWS 3960

#### **ARTH 3401 - Art of Ancient Mesoamerica**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 with C- or better or CHS 1000; or permission of department

**Description:** This course provides an overview of the arts and architecture produced by the different cultures of Mesoamerica, from the Olmec to the Aztec, as they existed before and up to the Spanish Conquest. The primary focus is on the visual elements of culture left to us, as well as any written records from both the Pre-Hispanic and Conquest periods. Through an exploration of these visual records, students examine the aesthetics and technologies of Mesoamerican cultures, as well as the cultural cosmologies and religious beliefs, political structures, and daily life which informed their production. Particular issues under discussion include cross-cultural contacts, the manipulation of power structures through imagery and architectural space, and the role of gender and social status in representation, politics, and religion.

*Note: Credit will be granted for only one prefix: ARTH or CHS.*

**Cross Listed Course(s):** CHS 3401

#### **ARTH 3402 - Art of the Ancient Andes**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 with "C-" or better; or permission of department

**Description:** This course provides an overview of the artistic developments that appeared in the Central Andes between the Initial Period (1800-1000 BCE) and the Spanish Conquest of the Inca Empire in 1534. Artworks and architectural structures are situated in relation to the cultures that rose and fell in this region during the Pre-Columbian era, beginning with the peoples of Chavin de Huantar and ending with the vast empire of the Inca. Students learn to locate art objects, styles, and iconographies within larger frameworks of history, religious beliefs, and cultural worldviews. Material from Conquest-period documents, ethno-histories, and archaeological excavations are used to elucidate the subjects, functions, and forms of the artworks and architectural structures examined by the class.

#### **ARTH 3405 - Native American Art**

**Credits:** 3

**Prerequisite(s):** NAS 1000 or ARTH 1500 or ARTH 1600 or ARTH 1700

**Description:** This course focuses on American Indian Art as sacred, historical, and utilitarian expressions of regional tribal differences and cultural interconnectedness. The course provides an opportunity for study and exploration of ideas, attitudes, and the art of the Indigenous People of the United States. Students examine recurrent themes, imagery and forms within the historical timeline.

*Note: Credit will be granted for only one prefix: ARTH or NAS.*

**Cross Listed Course(s):** NAS 309A

#### **ARTH 3412 - Greek and Hellenistic Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 and ENG 1020 with C- or better or permission of department

**Description:** Students in this course examine the artistic and cultural production of the ancient Greek world from approximately 3000 to 30 BCE, including architecture, sculpture, pottery, mosaics, painting,

and city planning. Periods studied will include the Minoan, Mycenaean, and Cycladic cultures of the Bronze Age, the early development of Greek art and culture in the Orientalizing and Geometric periods, the pursuit of artistic perfection in the Archaic and Classical periods, the rise of Alexander the Great, and the spread of Greek culture in the Hellenistic period. Students identify and discuss theoretical frameworks, problems, and scholarly approaches to the study of Greek art. Students also consider the impact of myth, epic, philosophy, trade, and colonization on the art and architecture of ancient Greece.

#### **ARTH 3414 - Roman Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 and ENG 1020 with C- or better or permission of department

**Description:** Students in this course examine the artistic, architectural, and archaeological monuments of ancient Italy and its expansive Roman Empire from c. 900 BCE to 400 CE. This span of time traces the rise of Roman art and architecture from its early beginnings under Etruscan influence through the era of the Roman Republic, when Italy was unified under Roman rule and the armies of Rome began their conquests of the Mediterranean. Students follow the development of Roman art, architecture, and archaeological monuments under the Imperial system, focusing on the monuments from the reigns of famous Roman emperors such as Augustus, Trajan, Hadrian, Marcus Aurelius, and Constantine. Finally, the rise of Christianity is examined through its artistic and archaeological remains.

#### **ARTH 3421 - Medieval Art**

**Credits:** 3

**Prerequisite(s):** ENG 1020 and ARTH 1600 with a C- or better or permission of the department

**Description:** Students in this course study the art and culture of the 4<sup>th</sup> to the 14<sup>th</sup> centuries in Europe and the Mediterranean. The art of this period is considered within a larger social history tied to the changing and overlapping influences of various religious beliefs, political systems, and economic structures. Stylistic development, patronage, iconography, and functionality are explored in addition to considerations of materials, techniques, and aesthetic theories. Students in this class are exposed to the arts of sculpture, metalwork, manuscript illumination, tapestry, stained glass, painting, and architecture.

#### **ARTH 3433 - Northern Renaissance Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with a "C-" or better; or permission of department

**Description:** Students in this course are introduced to the painting, sculpture, prints, and architecture produced during the fifteenth and sixteenth centuries in Northern Europe. Students learn primarily about the arts produced in the German and Dutch speaking lands during that period. This was a time of profound religious, social, scientific, and political transformations that greatly impacted artistic production. In addition to the impact of the Reformation, the changing patterns of patronage, and the rise of new media,

students examine the careers of individual artists (Jan van Eyck, Hieronymus Bosch, and Albrecht Dürer, among others) and their distinct contribution to the arts of the period.

#### **ARTH 3434 - Italian Renaissance Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with a C- or better or permission of the department.

**Description:** Students in this course study Renaissance art and culture during the 15<sup>th</sup> and 16<sup>th</sup> centuries in Italy. The art of this period is considered within a larger social history tied to the changing and overlapping values of the church, the aristocracy, and mercantile elites. Students explore stylistic development, patronage, and iconography in addition to considerations of materials, techniques, and the aesthetic theories of the Renaissance. Students in this course examine the work of artists such as Brunelleschi, Donatello, Leonardo, Michelangelo, Titian, and Raphael. Additionally, students engage with topics such as the invention of "art" and "artist," urban politics, gender, sexual values, the influence of Humanism, and changing penitential piety.

#### **ARTH 3441 - Spanish and Italian Baroque Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with a "C-" or better or permission of the department.

**Description:** Students in this course are introduced to the painting, sculpture, and architecture produced during the seventeenth century in Southern Europe. Students are exposed to the arts produced in the city of Rome, the flagship of the Catholic Church and the most important artistic center in the West during that period. Commonly known as the Golden Age, this was a time of profound religious, social, scientific, and political transformations that greatly impacted artistic theory and practice. Students in this course examine the careers of individual artists (the Carracci, Caravaggio, Bernini, and Velázquez, among others) and their distinct contributions to the arts of the period, as well as the impact of the Counter-Reformation, the changing patterns of patronage, and the rise of art collecting.

#### **ARTH 3443 - Northern Baroque Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with a "C-" or better or permission of department

**Description:** This course focuses on the art produced in the Netherlands (present day Belgium and Holland) in the 17<sup>th</sup> century. Students engage in a larger investigation of Netherlandish visual culture through examining the work of artists such as Rubens, Rembrandt, and Vermeer. Topics include the relationship of visual images to the notions of knowledge and science, to political and religious ideals and institutions, to evolving notions of privacy, domesticity, and subjectivity, and to the expanding capital-based wealth of Northern Europe. Students consider current scholarly debates regarding "realism" and the interpretation of Dutch and Flemish pictures.

#### **ARTH 3445 - Spanish Colonial Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with a "C-" or better or permission of the department

**Description:** Students in this course examine the key art and visual material productions of several Latin American countries during the colonial period. Stylistic developments, patronage, iconography, and cultural context are explored in addition to considerations of materials, techniques, and aesthetic theories of the period. Among other issues and themes, students investigate issues of race, gender, and identity; the question of hybridity and transculturation; and the complex artistic interconnections between Spain's holdings in Europe, the Americas, and Asia during this period.

#### **ARTH 3481 - Latin American Modernisms**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with C- or better or CHS 1000; or permission of department

**Description:** This course is an introduction to the development of modernism and postmodernism in Latin American art from 1910 to 1980. The course examines artists of differing periods and nationalities within a unifying thematic framework. These themes include: responses to the colonial past; nationalism and public art; indigenismo; folk/ popular arts; and relations with the European avant-garde. However, historical and geographic circumstances also provide a mechanism for distinguishing between individual artists and national or regional art movements. As a result the course examines distinct but intersecting manifestations of modernism within 20<sup>th</sup> century Latin America.

*Note: Credit will be granted for only one prefix: ARTH or CHS.*

**Cross Listed Course(s):** CHS 3481

#### **ARTH 3500 - Non-Western Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 or ARTH 1700 with "C-" or better; or permission of department

**Description:** This course studies art of a specific culture or group of artists working primarily outside of Euro-American traditions in a particular time. The cultural contexts that informed themes, content, techniques, processes, function and display of the artwork will provide fundamental interpretive frameworks. Students will identify historical problems in the field of study and examine variations in scholarly interpretations of the works of art. Specific topics may broadly survey all of a region, such as Andean Art, or Art of India; or focus on particular issues and time periods, such as Art and Politics in Mexico since 1846.

*Note: This course may be repeated under different topics for up to 9 credits.*

#### **ARTH 3510 - Variable Topics in Ancient Art**

**Credits:** 3

**Prerequisite(s):** ENG 1020, ARTH 1600 with C- or better or permission of department

**Description:** Students in this course are introduced to specific themes in the art of the ancient world. Students identify historical problems in the study of ancient art and examine and assess scholarly interpretations of artworks and material culture. Specific topics may

include a broad survey of a region, such as the ancient Mediterranean; a culture, such as the Etruscans; a medium, such as painting; and/or a theme, such as cities of the ancient Roman world.  
*Note: This course may be repeated under different topics up to 9 semester credit hours.*

#### **ARTH 3520 - Medieval Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 with "C-" or better; or permission of department

**Description:** This course studies a particular artist, group of artists, region or issue as it relates to Medieval art during the fourth to fourteenth centuries. Stylistic development, patronage, iconography, and cultural context of the Middle Ages are explored in addition to considerations of materials, techniques and aesthetic theories of the period. It focuses on artists such as Gislebertus, Villard de Honnecourt, Jean Pucelle, Giotto, Duccio, and may include the arts of sculpture, metalwork, manuscript illumination, tapestry, stained glass, painting or architecture. Alternatively, the course may be framed under regional, stylistic, or cultural themes such as Byzantine Art or French Manuscripts. (This course may be repeated for credit under different topics for up to 9 credit hours.)

*Note: Variable topic; may be repeated for up to 9 semester hours credit under different topics.*

#### **ARTH 3530 - Renaissance Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with "C-" or better; or permission of department

**Description:** This course is a study of a particular artist, group of artists, region or issue as it relates to art during the period known as the Renaissance, which covers roughly the 15th and 16th centuries. Stylistic development, patronage, iconography, and cultural context are explored in addition to considerations of materials, techniques, and aesthetic theories of the Renaissance. The course focuses on artists such as Van Eyck, Bosch, Bruegel, Leonardo, Michelangelo, Durer, or may focus on themes such as Art and Science in the Renaissance, Renaissance Patronage, Venetian Art of the 15th and 16th Centuries, or Northern Renaissance Art and Culture.

*Note: This course may be repeated for credit under different topics for up to 9 credits.*

#### **ARTH 3540 - Baroque Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with "C-" or better; or permission of department

**Description:** This course is a study of a particular artist, group of artists, region or issue as it relates to Baroque art during the seventeenth and eighteenth centuries. Stylistic development, patronage, iconography, and cultural context are explored in addition to considerations of materials, techniques, and aesthetic theories of the period. Major religious and political changes and how these were reflected in the visual arts and debates over the role of art are among the issues covered. The course may focus on specific artists such as Caravaggio, Bernini, Rubens, Rembrandt, thematic issues such as Everyday Life in Dutch Art, or regional topics, such as Flemish Art

of the 17th Century.

*Note: This course may be repeated for up to 9 semester hours credit under different topics.*

### **ARTH 3560 - 19th Century Art: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with "C-" or better; or permission of department

**Description:** This course studies art of the 19th century in a specific geographic location, or under certain social conditions, or within a specific movement, or by focusing on a single or small group of artists. The cultural contexts that informed themes, content, techniques, processes, function and display of the artwork provide fundamental interpretive frameworks. Students identify historical problems in the field of study and examine variations in scholarly interpretations of the works of art. Specific topics may broadly survey art of a region, such as French 19th century Art or focus on particular movements, such as Symbolist Art, or artists, such as Courbet and Manet.

*Note: This course may be repeated for up to 9 semester hours credit under different topics.*

### **ARTH 3580 - 20th and 21st Century Art: Variable Topics**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ARTH 2080 with "C-" or better; or permission of department

**Description:** This course studies art of the 20th or 21st centuries in a specific geographic location, or under certain social conditions, or within a specific movement, or by focusing on a single or small group of artists. The cultural contexts that informed themes, content, techniques, processes, function and display of the artwork provide fundamental interpretive frameworks. Students identify historical problems in the field of study and examine variations in scholarly interpretations of the works of art. Specific topics may broadly survey art of a region, such as German Art since World War II, focus on particular movements, such as Minimalism, time periods, such as Art of the 1960s, themes, such as Art and Society or on specific artists, such as Picasso and Matisse.

*Note: This course may be repeated for up to 9 semester hours credit under different topics.*

### **ARTH 3670 - History of Art Between World Wars**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ARTH 2080

**Description:** This course is an in-depth study of art, architecture, and design in the transitional period between World War I and World War II, considering art in Europe and the United States in its cultural context. Students read theoretical material and artists' writings as well as examine political and historical events and analyze how those informed and were represented by artistic practices. A recurring theme throughout the course is art's social and critical functions.

### **ARTH 3690 - History of Communication Design**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with "C-" or better; or permission of department

**Description:** Students in this course engage in a comprehensive study of communication design history using the interpretive framework of contexts of change. Through an emphasis on social, economic, and environmental factors, this framework promotes discourse on the movements, people, places, and processes that have revolutionized society's relationship with visual communication throughout history. Contemporary scholarship in design is contextualized so that recent innovations in the field may be explored. Students identify historical problems in the field of study and examine variations in scholarly interpretations of works of design.

### **ARTH 3780 - Cinema as Visual Art**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 or ENG 2860 with "C-" or better; or permission of department

**Description:** This course examines connections between cinema and visual art throughout the 20<sup>th</sup> and 21<sup>st</sup> centuries. Focus is put on experimental and avant-garde approaches and on films made by artists in other media; however, the division between commercial and experimental cinema is treated critically. Films are considered in their historical contexts and in light of critical writings from the period. Students should be prepared for extensive reading and writing, as well as in-class discussions. Class time includes lab hours during which various films will be screened and analyzed. This is an integrated media course.

### **ARTH 3790 - Photography and Modernism**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 or ARTH 3080 with "C-" or better; or permission of department

**Description:** This course examines relationships between photography, modernity as a social condition, and modernism as an artistic movement. The study is broad in scope, including photographs from the late 19<sup>th</sup> century through the 21<sup>st</sup> century, but takes a thematic approach. Case studies of particular photographs, movements, and exhibitions provide course content, and students relate images to scholarly articles on the social, aesthetic, and political context of modernism and modernity. Critical approaches to modernism, including postmodernism, deconstruction and post-colonialism, are also explored and related to contemporary practices in photographic art.

### **ARTH 3980 - Internship in Art History**

**Credits:** 1-15

**Prerequisite(s):** Major in Art or Art History; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*  
*Note: Variable Credit*

#### **ARTH 4410 - Art History and Its Methods**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better and an additional course in art history; or permission of department

**Description:** This course is a seminar that will allow students to analyze the changing methodology of the discipline of art history over time and to develop a project that will investigate a specific problem found in previous and current scholarship dealing with issues of style, meaning, or interpretation. Students will present the results of the project in the seminar setting and will also submit a written version of those findings with appropriate documentation.

#### **ARTH 4480 - Art Theory and Criticism**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better; or permission of department

**Description:** This course is a seminar for advanced students involving the reading and discussion of Modern and Postmodern critical and theoretical essays about the visual arts. Students are required to make extensive use of the library facilities and to demonstrate their ability to analyze texts both orally and in writing. By the end of the course, students will be able to apply theoretical principles to their own and historical artworks.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**Cross Listed Course(s):** HON 4480

#### **ARTH 4500 - Variable Topics Seminar in Art History, Theory and Criticism**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700 and ARTH 2080 with a "C-" or better in each, or permission of department

**Description:** This course is an advanced, thematic seminar on an art historical topic. Students discuss thoroughly and apply information from readings that reflect recent scholarly approaches to the theme. Artworks are examined in critical frameworks that demonstrate the complex intersections between cultural, social, political, and aesthetic contexts. Students research a specific art historical problem and develop an original study using theoretical approaches to the topic.

*Note: This course may be repeated under different topics for up to 9 semester hours.*

#### **ARTH 4510 - Exhibiting the Art Object**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better in each; plus at least 9 additional semester hours of art history; or permission of department

**Description:** This course requires the student to plan an exhibition of

art works. Exhibition ideas are based upon discussions with curators, conservators, and other museum professionals, as well as research into standard museum and gallery practices.

#### **ARTH 4710 - Art History, Theory and Criticism Senior Experience**

**Credits:** 3

**Prerequisite(s):** Satisfaction of Oral, Written, and Quantitative General Studies requirements; senior standing; ARTH 2600 and ARTH 4480 with C- or better in each; and at least 12 additional credits of upper-division ARTH courses; and permission of department.

**Description:** Students in this course synthesize information, theories, and methodologies from coursework throughout their academic career in order to generate an original senior thesis project. Students identify a problem or question to investigate within a subfield of art history and articulate an original argument that effectively connects form, content, and context to historical or contemporary examples of artwork. Using art historical methods and resources to support their research, students externalize the integration of these concepts through a research paper or thoroughly-researched curatorial proposal, and a public presentation.

**University Requirement(s):** Senior Experience

#### **ARTH 4720 - Directed Research in Art History, Theory and Criticism**

**Credits:** 1

**Corequisite(s):** ARTH 4710

**Description:** This course is a requirement for Art History, Theory and Criticism majors and should be taken as a corequisite to the Art History, Theory and Criticism Senior Experience. Students work closely with a faculty member of his or her senior thesis committee to conduct research on a focused thesis topic. Advanced research methods will be utilized to develop a thorough bibliography of primary, secondary and theoretical sources on the student's topic. Students consult with this faculty member through revisions of the thesis project in order to more effectively communicate the results of the study.

### **Astronomy**

#### **AST 1040 - Introduction to Astronomy - Solar System**

**Credits:** 4

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

**Description:** This course is a brief introduction to general astronomy with an emphasis on solar systems and a survey of physical processes. It includes an introduction to the night sky, planets, moons and life in our and other solar systems. It also includes principles of modern astronomy, summarizing our present knowledge and highlighting the latest discoveries from space.

*Note: This course may be taught as a lecture, online, and self-paced.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GS-SC1

## AST 1050 - Introduction to Astronomy - Stars and Galaxies

**Credits:** 4

**Prerequisite(s):** Minimum performance standard scores on writing and mathematics pre-assessment placement tests

**Description:** This course is a brief introduction to general astronomy with an emphasis on stars and galaxies and a survey of physical processes. It covers principles of modern astronomy summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe.

*Note: This course may be taught as a lecture, online, and self-paced.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GS-SC1

## AST 1052 - General Astronomy I

**Credits:** 4

**Prerequisite(s):** High school algebra or equivalent

**Description:** This course introduces the methods and results of modern astronomy (solar system, stars, galaxies, and cosmology) at an elementary level.

## AST 3040 - Modern Cosmology

**Credits:** 3

**Prerequisite(s):** PHY 1000 or AST 1040 or consent of instructor

**Description:** This course is designed for non-majors. It covers the large-scale structure of the universe and such topics as gravitational theories, neutron stars, pulsars, black holes, big bang universe, steady state theory, cosmological tests, dark matter, age of the universe, inflationary models, recent data, and fate of the universe.

**General Studies:** Natural and Physical Sciences

## AST 3050 - General Astronomy II

**Credits:** 3

**Prerequisite(s):** AST 1052 or PHY 2010 or PHY 2311

**Description:** This course is a continuation of AST 1052. The topics covered in this course include stellar evolution, galaxies, and cosmology.

## AST 3141 - Astronomical Techniques I

**Credits:** 3

**Prerequisite(s):** AST 1040 or AST 3040 or equivalent; MTH 2410

**Description:** This course introduces basic observational astronomy techniques via observational exercises, lab experiments, and lectures on relevant statistical techniques. Special emphasis is placed on CCD imaging and radio interferometry.

## Athletic Training

### ATP 2220 - Foundations of Athletic Health Care

**Credits:** 4

**Description:** This course is required for students pursuing a degree in

athletic training. The objectives of this course address specific issues relating to the profession of athletic training as well as specific athletic training curricular standards and proficiencies, (e.g., prevention, recognition, and treatment of various athletic injuries and environmental illness).

### ATP 3110 - General Medical Topics in Athletic Training

**Credits:** 3

**Prerequisite(s):** BIO 2320 and formal admittance to Athletic Training Program

**Description:** This course is designed to enhance the athletic training major's knowledge of general medical topics that are relevant to athletic and physically active individuals. This course includes: etiology, pathology, signs, symptoms, treatment and prevention of common medical conditions across the lifespan and/or due to traumatic event. Various medical procedures and diagnostic/laboratory tests will also be introduced.

### ATP 3800 - Pathology of Athletic Injury

**Credits:** 3

**Prerequisite(s):** Formal Acceptance to the Athletic Training Program or Permission of Instructor

**Description:** This course will analyze and differentiate the varying mechanical, physiological and pathological aspects of athletic injuries with an emphasis placed on parameters most important in identifying the common pathological conditions associated with athletic injuries. The content of this course will also include basic pharmacodynamics and pharmacokinetics.

### ATP 3830 - Injury/Illness Evaluation I

**Credits:** 3

**Prerequisite(s):** BIO 2310 and ATP 3800

**Corequisite(s):** ATP 3831

**Description:** This course introduces the athletic training student to the process of evaluating injuries and illnesses. Emphasis is placed upon performing: a patient history, observation, anatomical structure palpation, range of motion assessment, strength, and functional testing to create a differential diagnosis. Other topics covered in this course include: formulating a preliminary plan of care, proper medical documentation (including medical coding), and identifying comorbidities of complex conditions. This is one of the sequential professional preparation courses in the Athletic Training Program.

### ATP 3831 - Athletic Training Clinical Practice I

**Credits:** 2

**Prerequisite(s):** ATP 3800

**Corequisite(s):** ATP 3830

**Description:** This is a clinical course for athletic training majors, addressing specific athletic training clinical curricular standards. This course is a co-requisite to ATP 3830 and emphasizes applying clinical skills of injury and illness evaluation of selected injuries/illnesses as well as introducing proper set-up and application of selected therapeutic modalities.

## **ATP 3850 - Injury/Illness Evaluation II**

**Credits:** 3

**Prerequisite(s):** ATP 3830

**Corequisite(s):** ATP 3851

**Description:** This course expands the athletic training student's knowledge of the evaluation process associated with injuries/illnesses/conditions. Emphasis is placed upon demonstrating injury evaluation procedures and techniques including, but not limited to: injury history, observation, anatomical palpations of, range of motion, strength, and functional testing leading to injury recognition and formulating a differential diagnosis and plan of care. This is one of the sequential professional preparation courses in the Athletic Training Program.

## **ATP 3851 - Athletic Training Clinical Practice II**

**Credits:** 2

**Prerequisite(s):** ATP 3831

**Corequisite(s):** ATP 3850

**Description:** This is a clinical course for athletic training majors, addressing specific athletic training clinical curricular standards. This course is a co-requisite to ATP 3850 and emphasizes utilizing the International Classification of Functioning, Disability and Health (IFC) when evaluating selected injuries/illnesses/conditions, utilizing best available evidence to support evaluation procedures and techniques, and demonstrating clinical decision making in the selection of various therapeutic modalities.

## **ATP 3860 - Therapeutic Interventions for Athletic Trainers I**

**Credits:** 3

**Prerequisite(s):** ATP 2220 with "C" grade or better, BIO 2310 with "C" grade or better, formal admittance to the Athletic Training Program

**Corequisite(s):** ATP 2861

**Description:** A study of current theory and application in the use of therapeutic interventions for individuals with various injuries, conditions, and illnesses. Emphasis on foundational theory of techniques, program design, and its related concepts. This course introduces the underlying principles and clinical application of thermal, electrical and mechanical modalities.

## **ATP 4750 - Therapeutic Interventions for Athletic Trainers II**

**Credits:** 3

**Prerequisite(s):** ATP 3860 with "C" grade or better

**Description:** This course will address therapeutic interventions by body region. This course expands the student's theoretical background required for prudent clinical application of contemporary therapeutic exercise programs and reconditioning procedures. Indications and contraindications for each specific exercise progression procedure will be emphasized. Proper selection and use of therapeutic modalities to address the treatment of clinical symptoms including inflammation, muscle re-education, pain, and other dysfunctions will be discussed.

## **ATP 4751 - Athletic Training Clinical Experience V**

**Credits:** 3

**Prerequisite(s):** ATP 3851 with "C" grade or better

**Corequisite(s):** ATP 4750

**Description:** This is a clinical course for Athletic Training majors, addressing specific athletic training clinical proficiencies. This course is the fifth in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the clinical skills applied to the rehabilitation techniques involved with upper and lower body injuries.

## **ATP 4771 - Athletic Training Clinical Experience VI**

**Credits:** 3

**Prerequisite(s):** ATP 4751 with "C" grade or better

**Corequisite(s):** EXS 4772

**Description:** This course is designed to allow athletic training majors to synthesize athletic training theoretical knowledge and demonstrate mastery of athletic training clinical skills as dictated by the National Athletic Trainers' Association Educational Competencies.

**University Requirement(s):** Senior Experience

## **ATP 4850 - Administrative and Research Topics in Athletic Training**

**Credits:** 2

**Prerequisite(s):** ATP 4750 with "C" grade or better

**Description:** This course is designed to synthesize athletic training knowledge and proficiencies in regard to athletic health care administration. Students will also be introduced to research and research methods applicable to the athletic training profession.

## **Athletics**

### **ATH 1000 - Varsity Sport**

**Credits:** 1-2

**Description:** This course is designed to teach rules, techniques and skills used in playing and understanding of sport.

*Note: This variable topic course may be repeated under different topics for a maximum of 4 credits.*

## **Aviation and Aerospace Science**

### **AES 0345 - Aerobatic and Glider Flight Lab**

**Credits:** 0

**Prerequisite(s):** AES 2350

**Description:** The Aerobatic and Glider Course is a continuation of AES 2350 further preparing the students for participation in the International Aerobatic Club (IAC) Collegiate Program national team and individual collegiate events. Aerobatic flight maneuvers, precision, accuracy and timed events are learned. Required for all students who are members of the MSU Denver Aerobatic and Glider Team.

*Note: Students may repeat this course as needed.*

## **AES 1040 - Introduction to Unmanned Aircraft Systems**

**Credits:** 3

**Description:** This course gives the student pursuing aviation science an operational knowledge of unmanned aircraft systems (UAS). This includes small, medium, and large aviation vehicles (AV), flight and ground control processes, FAA regulations, UAS applications, mission operations, ethical and human factors concerns, and future considerations.

## **AES 1050 - Introduction to Space**

**Credits:** 3

**Description:** This course introduces students to the challenges of working in space. Course activities lead to the design and construction of a working satellite for launch. The course is designed for both engineering and non-engineering students.

*Note: Credit will be granted for only one prefix: AES or MET.*

**Cross Listed Course(s):** MET 1050

## **AES 1100 - Aviation Fundamentals**

**Credits:** 4

**Corequisite(s):** AES 1400

**Description:** This course presents the fundamentals of aviation for the beginning student which includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather. It prepares the student for the Federal Aviation Administration (FAA) Private Pilot Knowledge examination.

## **AES 1400 - Aviation Weather**

**Credits:** 3

**Corequisite(s):** AES 1100 or permission of instructor

**Description:** This course develops basic meteorological concepts that apply to aviation. The emphasis is on the use of National Weather Service reports and forecasts to evaluate flight conditions. The course also prepares students for the weather section of the FAA Private Pilot Knowledge examination.

## **AES 1500 - Private Pilot Flight Lab**

**Credits:** 2

**Prerequisite(s):** Instructor Permission

**Description:** The course is designed to enable a student to obtain credit for earning an FAA Private Pilot certificate under either Federal Aviation Regulations Part 61 or Part 141. A minimum of 35 hours of flight time is required. Course credit is contingent on the student obtaining the FAA Private Pilot certificate.

*Note: This course cannot be certified for veteran benefits.*

## **AES 1710 - Instrument Flight Simulation I**

**Credits:** 3

**Corequisite(s):** Recommended to be taken concurrently with AES

1100

**Description:** The course covers basic flight instruments, radio navigation, aviation weather, aircraft performance, including weight and balance, crew coordination, and aeronautical decision-making. The fundamentals of instrument attitude flight (scanning, interpreting and controlling) are practiced in a flight training device. Radio navigation is introduced and includes both ground-based and satellite-based systems.

## **AES 2040 - Unmanned Aircraft Systems Flight and Control**

**Credits:** 4

**Prerequisite(s):** AES 1040

**Description:** Students will be introduced to the principles of flight and control as applied to unmanned aeronautical vehicles (UAVs). Students will receive class lecture plus onsite and field trip learning experiences as applied to the flight and control of UAV vehicles. Topics include principles of flight, mission planning, systems control, and safety of personnel, safety in the operational environment, compliance with regulations and procedures. Human factors analysis with focus on crew resource management is also introduced. Opportunities for applied practicum, including field trip work setting activities are provided.

## **AES 2050 - Aviation and Aerospace History and Development**

**Credits:** 3

**Description:** This course examines how individuals and defining events of the past influenced the development of aviation and aerospace science. From early myths to advents in aerospace science, such as advances in propulsion systems, structural materials, navigation techniques, high altitude flights, weather analysis, UAV/UAS development, and space exploration are considered. We vicariously relive many of the extraordinary experiences of early aviators and space pioneers. The evolution of aviation science in comparison to aerospace science is described. Historical events are analyzed for applicability to embracing future opportunities and career paths in aviation and space science.

## **AES 2120 - Instrument Fundamentals**

**Credits:** 4

**Prerequisite(s):** AES 1100, AES 1400, AES 1710, or permission of instructor

**Description:** In this course, the student studies aeronautics, regulations, meteorology, and instrument procedures in preparation for the FAA instrument knowledge examination.

## **AES 2130 - Commercial Flight Operations**

**Credits:** 3

**Prerequisite(s):** AES 2120 or permission of instructor

**Description:** This course covers aeronautics, regulations, complex aircraft systems, and aeronautical decision making appropriate to commercial flight operations. The course also reviews and builds upon fundamental meteorological principles with particular emphasis on weather factors that affect advanced flight planning. The course brings the students' aeronautical knowledge to the level of a

commercial pilot, preparing them for the FAA commercial knowledge exam.

### **AES 2200 - Fundamentals of Air Traffic Control**

**Credits:** 4

**Prerequisite(s):** AES 1100 or Permission of instructor

**Description:** This course is an introduction to air traffic services, procedures, communications, record keeping, regulations, emergencies, and air space constructions. Basic and advanced ATC (air traffic control) radar topics are introduced with emphasis on hands-on application in the simulator lab. Lab exercises encompass aircraft separation, identification and speed control, flight progress strip usage, emergency procedures, and the elements necessary for the safe operation of the ATC system.

### **AES 2220 - Flight Dispatch and Load Planning**

**Credits:** 3

**Prerequisite(s):** AES 1100, AES 1400 (D-), and any approved Quantitative Literacy course

**Description:** This course introduces students to the topics needed to prepare them to work as a flight dispatcher. Regulations required for operations are a vital area of knowledge and will be covered. This course covers the methods of decision-making, safety, and weather conditions related to dispatch decisions.

### **AES 2330 - Precision Flight and Navigation**

**Credits:** 3

**Prerequisite(s):** AES 1100 or Private Pilot certificate

**Description:** The first Flight Team course prepares students for participation in the National Intercollegiate Flying Association regional and national flying meets. Flight and ground event accuracy and time events are learned. This course is required for students who are new members of the MSU Denver Precision Flight Team.

### **AES 2350 - Fundamentals of Aerobatic and Glider Flight**

**Credits:** 3

**Description:** The first Aerobatic and Glider Course prepares students for participation in the International Aerobatic Club (IAC) Collegiate Program, national team and individual collegiate events. Aerobatic flight maneuvers, precision, accuracy and timed events are learned. Required for all students who are members of the MSU Denver Aerobatic and Glider Team.

### **AES 2500 - Instrument Pilot Flight Lab**

**Credits:** 2

**Prerequisite(s):** AES 1100 and instructor permission

**Description:** This course is designed to enable a student to obtain credit for earning an FAA Instrument rating under either Federal Aviation Regulations Part 61 or Part 141. A minimum of 40 hours of instrument flight time is required and course credit is contingent on the student obtaining the FAA Instrument rating.

*Note: This course cannot be certified for veteran benefits.*

### **AES 2607 - Introduction to Aerospace Systems Simulation**

**Credits:** 3

**Description:** This class will provide a fundamental introduction to Orbital Mechanics and Physics software modeling. The student will learn the interfaces of various Space Mission Modeler and Visualization software products, such as AGI's System Tool Kit (STK) and A.I. Solutions' Freeflyer as applied in Orbital Mechanics. This class will offer a foundation for higher level coursework on Space Mission Modeler and Visualization software with a sophisticated focus on software interface and space mission applications. Students are provided with necessary software licensing with course enrollment.

### **AES 2630 - Spacecraft Mission Operations I**

**Credits:** 3

**Prerequisite(s):** AES 1050

**Corequisite(s):** AES 3600

**Description:** Provides the student with an overview of the real-time skills, techniques, and methods necessary to conduct a space mission as a Spacecraft Operator including generation of the daily planning and successful execution of the real-time portion of a space mission. The differences in ground and space system architectures, mission dynamics (orbit, spacecraft agility, etc.), operations tempo, and the planning timeline inherent in various types of missions are examined. The laboratory includes hands-on exercises in the AES Mission Operations Center to create a daily mission plan, conduct spacecraft real-time command and control, and perform post contact (pass) data analysis. A real-time ops environment is created using an interactive spacecraft simulator. Focus is on learning the skills necessary to operate a space mission.

### **AES 2710 - Instrument Flight Simulation II**

**Credits:** 3

**Prerequisite(s):** AES 2120

**Description:** This course covers instrument flight planning, navigation, and situational awareness during departure, enroute, and arrival phases of flight. Simulated flights include air traffic control (ATC) clearances, use of radio aids for determining position, holding patterns, and both precision and non-precision approaches. Pilot procedures during emergency and abnormal conditions are introduced and practiced.

### **AES 3000 - Aircraft Systems and Propulsion**

**Credits:** 3

**Prerequisite(s):** AES 1100 or FAA Private Pilot Certificate, and Any Approved Natural and Physical Science Course, and Junior Standing

**Description:** This course introduces the student to aircraft nomenclature, design, features, systems, and their components. This course covers the theory, components, instrumentation, and operation of internal combustion and turbojet engines. In addition, it covers the fuel, electrical, hydraulic, and pneumatic aircraft systems.

### **AES 3040 - Unmanned Aircraft Systems Data Collection and Analysis**

**Credits:** 4

**Prerequisite(s):** AES 1040

**Description:** This course is an introduction to the techniques and processes that are needed to collect data from unmanned aerial vehicles (UAV). Students will learn how to acquire, process, and analyze data from photographic, multispectral, infrared, and LiDAR sensors. Students will receive class lecture and practical experience with sensors and processing applications. Topics include principles of data acquisition, aircraft and sensor selection, mission planning, data processing and analysis. Opportunities for applied practicum, including field trip work setting activities are provided.

### **AES 3220 - Aviation and Aerospace Law**

**Credits:** 3

**Prerequisite(s):** AES 1100 and Junior or Senior Standing

**Description:** This course provides an overview of fundamental aviation and space law. Concepts and terminology of constitutional law, administrative law, contract, and tort law as they relate to governmental organization, regulatory and international organizations, the regulatory environment, and regulation enforcement are highlighted. Principles of aviation liability and protections against liability claims are analyzed. Basic principles of space law are presented.

*Note: Credit will be granted for only one prefix: AES or HON.*

**Cross Listed Course(s):** HON 3220

### **AES 3230 - Airline Management**

**Credits:** 3

**Prerequisite(s):** Junior or Senior Standing or Permission of Instructor

**Description:** This course presents airline management issues, including the history and current organization of the airline industry, its economic impact on the society, and major management issues airlines face today. Discussions of the airline industry's unique legal history, airline company organization, labor relations, airline financing, and international aviation are included.

### **AES 3240 - Airline Planning**

**Credits:** 3

**Prerequisite(s):** Junior or Senior Standing, or Permission of Instructor

**Description:** This course presents airline management issues, including the history and current organization of the airline industry, its economic impact on the society, and major management issues airlines face today. Discussions of the airline industry's unique legal history, airline company organization, labor relations, airline financing, and international aviation are included.

### **AES 3330 - Intermediate Precision Flight and Navigation**

**Credits:** 2

**Prerequisite(s):** AES 2330

**Description:** The second Flight Team course is a continuation of AES 2330, further preparing the students for participation in the National Intercollegiate Flying Association regional and national

flying meets. Flight and ground event accuracy and timed events are practiced with emphasis on speed as well as accuracy. Required for students who are second semester members of the MSU Denver Precision Flight Team.

### **AES 3340 - Advanced Precision Flight and Navigation**

**Credits:** 1

**Prerequisite(s):** AES 3330

**Description:** The third Flight Team course is a continuation of AES 3330, further preparing the student for participation in the National Intercollegiate Association regional and national flying meets. Flight and ground event accuracy and timed events are practiced with emphasis on speed as well as accuracy. Students at this level will help teach newer team members. It is required for students who are third semester members of the MSU Denver Precision Flight Team.

### **AES 3460 - Weather for Aircrews**

**Credits:** 3

**Prerequisite(s):** AES 1400, At least junior standing or Permission of instructor

**Description:** This course builds upon the basic aviation weather knowledge required of pilots with particular emphasis on those aspects of weather affecting advanced flight operations. Stability and turbulence, clear-air turbulence, icing, jet stream weather and the use of airborne radar are considered. Weather-related aircraft accident reports with analysis of the influence of the weather factors involved are reviewed in detail. Students will develop the ability to project their knowledge of weather to conditions at airports in unfamiliar locations.

### **AES 3520 - Commercial Single-Engine Flight Lab**

**Credits:** 2

**Prerequisite(s):** FAA Private Pilot certificate and Permission of instructor

**Description:** The course is designed to enable a student to obtain credit for earning the FAA Commercial Pilot certificate under either Federal Aviation Regulations Part 61 or Part 141. Course credit is contingent on the student obtaining the FAA Commercial Pilot certificate.

*Note: This course cannot be certified for veteran benefits.*

### **AES 3530 - Aerodynamics**

**Credits:** 3

**Description:** This course studies the basic principles of aerodynamics, including airfoil shapes and aerodynamic forces, airplane performance, stability and control, strength limitations, and the application of these to specific flight situations. Included in this course are flight performance with air flow in the sub-, trans-, and supersonic envelopes.

### **AES 3570 - Ground Instructor Practicum**

**Credits:** 2

**Prerequisite(s):** FAA Commercial/Instrument certificate, CFI or

Advanced or Instrument Ground Instructor certificate, or Permission of instructor

**Description:** This course provides students practice as aviation instructors in advanced single-engine flight simulators. It covers all aspects of flight planning and preparation, setup of simulators, cockpit management, and IFR and VFR flight procedures, and navigation.

### **AES 3600 - Space Flight Operations I**

**Credits:** 3

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** Students review the history of space exploration and related issues motivating human inquiry and travel in space. Topics focus on identifying and understanding elements and systems comprising modern space vehicles and missions. Students analyze various national policies, treaties, and international laws affecting space operations. Fundamentals of interplanetary travel, orbit prediction, and launch and reentry operations are also investigated.

*Note: Credit will be granted for only one prefix: AES or HON.*

**Cross Listed Course(s):** HON 3602

### **AES 3607 - Orbital Mechanics and Aerospace Systems Simulations**

**Credits:** 3

**Prerequisite(s):** AES 2607 and Junior Standing, or Permission of Instructor

**Description:** Students will be introduced to orbital analysis using Analytical Graphics Inc (AGI)'s Systems Tool Kit (STK) software. They will integrate this analysis with simulations involving ground systems, ground vehicles, aircraft and ships. Students will use STK to assess, risks, optimize performance, and develop alternatives. The main purpose of the course is to introduce STK software, its interface and capabilities related to orbital mechanics concepts.

### **AES 3610 - Elements of Spacecraft Design I**

**Credits:** 3

**Prerequisite(s):** AES 3600 and Junior Standing or Permission of Instructor

**Description:** Introduces students to spacecraft operational perspectives and system components. This includes a focus on System Engineering and Orbital Mechanics. Additional topics areas discussed with spacecraft design is propulsion, attitude control, power systems, thermal control, command and data system, telecommunication, and structures. The operational aspect of acquiring and monitoring a spacecraft will be covered through lecture and laboratory exercises.

### **AES 3620 - Aerospace Systems Project and Mission Scheduling**

**Credits:** 3

**Prerequisite(s):** AES 3600 and Junior Standing or Permission of Instructor

**Description:** Students in this course develop a basic understanding of project management and how it is used in the aerospace industry by analyzing project management knowledge areas and processes in

context of aerospace applications. Previous aerospace projects will be analyzed from a project management perspective so students learn how to utilize project management principles in real world applications.

### **AES 3630 - Spacecraft Mission Operations II**

**Credits:** 3

**Prerequisite(s):** AES 2630

**Description:** The student gains a deeper understanding of the daily mission planning process, the issues involved with Mission Operations management, and the creation and upkeep of operations documentation and procedures for both routine and contingency system situations. The student also learns about the issues involved in managing the daily interaction of Operations with ground and space support teams (both routine and contingency) for the planning and scheduling of space and ground station assets. The laboratory builds on the student's experience in AES 2630 with increased complexity spacecraft real-time command and control real-time exercises including nominal mission execution and response to spacecraft anomalies. Long term trending of spacecraft health and performance data analysis are also explored.

### **AES 3650 - Advanced Flight Technologies**

**Credits:** 3

**Prerequisite(s):** AES 2120 and AES 2710 or an instrument rating

**Description:** The course is designed to emphasize advanced instrument procedures, including the use of global positioning system (GPS) and other area navigation (RNAV) systems. Additionally the course will cover pilot systems management concepts applicable to modern, technologically advanced, general aviation aircraft cockpits.

### **AES 3710 - Multi-Engine Flight Simulation I**

**Credits:** 3

**Prerequisite(s):** AES 2710 or FAA Instrument Rating, and at least Junior standing

**Description:** Introduces multiengine aircraft operations, such as IFR cross country flight. Introduces complex weight and balance computations and use of performance charts. Normal and emergency procedures are studied in the twin engine simulator. Aeronautical decision making and cockpit resource management are developed.

### **AES 3850 - Human Factors and Physiology of Flight**

**Credits:** 3

**Description:** At least junior standing Human factors, physiological effects and problems associated with flight are studied in this course This includes both high- and low-altitude flight environments

### **AES 3870 - Aircraft Accident Investigation**

**Credits:** 3

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** This course examines techniques and procedures for investigating aircraft accidents/incidents and report writing. Areas of emphasis are operations, air traffic control, meteorology, witnesses,

human factors, cockpit voice recorders, structures, power plants, systems, performance, maintenance records, and flight data recorders.

### **AES 3880 - Aviation Security**

**Credits:** 3

**Prerequisite(s):** Junior Standing, or Permission of Instructor

**Description:** The history, development and strategies of prevention and response to aviation security issues are studied in this course. The role of international and national agencies, including statutes and regulations are detailed, with particular emphasis on Transportation Security Regulations as they apply to airports and aircraft operators. The history of air terrorism is addressed, focusing on terrorist threats and governmental responses before and after 9/11/2001.

*Note: Credit will be granted for only one prefix: AES or CJC.*

**Cross Listed Course(s):** CJC 405M

### **AES 3980 - Internship in Aviation and Aerospace Science**

**Credits:** 1-15

**Prerequisite(s):** Major in aviation management or aviation technology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **AES 4040 - Aircraft Performance**

**Credits:** 3

**Prerequisite(s):** AES 3530

**Description:** Performance of aircraft from the Normal, Commuter, and Transport categories are examined. Regulations governing the performance requirements of aircraft certification within each category are discussed. Flight profiles are studied, with emphasis on aircraft capabilities and limitations. Required distances, speeds, and power or thrust settings for the various conditions of flight are calculated using performance charts.

### **AES 4100 - Advanced Air Traffic Control**

**Credits:** 3

**Prerequisite(s):** AES 2200 and Junior Standing

**Description:** Introduces advanced ATC radar topics, with emphasis on hands-on application in the simulator lab. Covers aircraft separation; identification and speed control; flight progress strip usage; emergency procedures; and the elements necessary for the safe operation of the ATC system.

### **AES 4200 - Airport Planning and Management I**

**Credits:** 3

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** This course introduces airport planning, management, and operations concepts. Topics covered include air traffic, forecasting, sources of revenues and expenses, management of revenue-producing facilities, and the U.S. Federal Aviation Administration regulations dealing with airport operations and security. Current problems with environmental impact, land use planning and control, airport capacity and delay, public relations, airport finance, airport privatization, liability, and economic impact are introduced.

### **AES 4210 - Airport Planning and Management II**

**Credits:** 3

**Prerequisite(s):** Senior Standing, AES 4200, or permission of instructor

**Description:** This is an advanced course in airport planning, management, and operation. At the conclusion of the course, students will be able to apply fundamental management theory to airports, determine airport capacity, and assess the potential for delays; evaluate airport environmental impacts; and identify components of the National Airspace System and its relationship to airports. They will be able to apply financial management and accounting techniques to airport finances, set airport fees, rates, and charges, and understand the process for obtaining capital funding for airport improvements. Evaluation and use of airport master plans, state airport system plans, and airport layout plans are also covered, as well as basic principles of terminal design and operations, applicable Federal Aviation Regulations, airport security, and basic airport emergency response procedures. Successful completion of the course prepares the student for the Certified Member (C.M.) of the American Association of Airport Executives (AAAE) examination.

**University Requirement(s):** Senior Experience

### **AES 4230 - General and Business Aviation Operations**

**Credits:** 3

**Prerequisite(s):** Senior standing or Permission of instructor

**Description:** This course is a study of the general aviation service industry (fixed-base operators and specialized aviation service operators). The course includes lectures on the history and evolution of the general aviation service industry, management functions, marketing, finance, human resources, operations, and safety.

### **AES 4240 - Air Cargo Industry**

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** An overview of the air cargo industry, including the size and scope of the industry, market segmentation, the role of air freight forwarders, economics and pricing of services, air cargo aircraft design and technology, management issues in the industry, and transportation of hazardous materials.

### **AES 4370 - Advanced Navigation Systems**

**Credits:** 3

**Prerequisite(s):** AES 2120 and 60+ credits

**Description:** This course is a follow-up to the navigation portion of AES 1100 and AES 2120. The student explores geographic coordinate systems, short-range and long-range route navigation, and aircraft position determination with systems available in modern aviation. Electronic instrumentation, navigation and flight management systems (FMS), electronic flight instrumentation systems (EFIS), inertial navigation systems (INS) and global positioning systems (GPS) are discussed.

#### **AES 4500 - Commercial Multi-Engine Flight Lab**

**Credits:** 2

**Prerequisite(s):** FAA Commercial Pilot certificate and Permission of instructor

**Description:** This course covers multi-engine aircraft operations. A minimum of 10 hours of flight training time are required. The FAA multiengine rating must be obtained to receive credit for this course.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4510 - Flight Instructor Flight Lab**

**Credits:** 2

**Prerequisite(s):** FAA Commercial/Instrument Pilot certificate and instructor permission

**Description:** This course provides the basic aeronautical knowledge and flight experience necessary for the FAA Certified Flight Instructor certificate. Fifteen hours of flight training are required and the FAA Certified Flight Instructor certificate must be obtained to receive credit for this course.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4520 - Flight Instructor-Instrument**

**Credits:** 1

**Prerequisite(s):** FAA Certified Flight Instructor certificate and Permission of instructor

**Description:** This course provides the basic aeronautical knowledge and experience that the instrument flight instructor must have. Ten hours of flight training are required and the FAA Instrument Instructor rating must be obtained to receive credit for this course.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4530 - Flight Instructor-Multi-Engine**

**Credits:** 1

**Prerequisite(s):** CFI, multi-engine rating and Permission of instructor

**Description:** This course provides the basic aeronautical knowledge and experience relative to multiengine flight instruction that the prospective multi-engine flight instructor must have. Fifteen hours of flight training time is required. The FAA Multi-Engine Flight Instructor rating must be obtained to receive credit for this course.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4540 - FAA Instructor Certification-Ground School**

**Credits:** 3

**Prerequisite(s):** AES 2130 or FAA Commercial/Instrument Certificate

**Description:** This course prepares the student to take the FAA Certified Flight Instructor knowledge examinations. Topic areas include advanced aeronautics, regulations, complex aircraft systems, and aeronautical decision-making concepts. Emphasis is placed on the practical aspects of flight instruction to include the preparation of lesson plans, presentation techniques, and evaluation principles.

#### **AES 4550 - Flight Helicopter**

**Credits:** 1

**Prerequisite(s):** Permission of instructor

**Description:** Helicopter systems, aerodynamics, flight characteristics, helicopter operations, and pertinent regulations and procedures are studied in this course. The FAA Commercial Pilot certificate with the Rotorcraft-helicopter rating must be obtained to receive credit for this course.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4570 - Airline Transport Pilot**

**Credits:** 1

**Prerequisite(s):** FAA Commercial/Instrument certificate and Permission of instructor

**Description:** Fifteen hundred hours of flight time, including 500 cross-country, 100 hours night flying, and 75 hours of instrument flight are required to complete this course. Students should be close to having completed the required flight hours before enrolling in this course. The course involves knowledge of navigation, weather, FARs, radio communications, weight distribution on aircraft and loading. Course credit is contingent on the student obtaining the FAA Airline Transport Pilot certificate.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4580 - Turbojet Flight Engineer or Type Rating**

**Credits:** 4

**Prerequisite(s):** FAA Flight Engineer Knowledge examination and/or Permission of instructor

**Description:** This course is for the student with access to type rating or flight engineer training, such as at an airline, and consists of ground school for B-727, DC-8, or other turbojet airplanes. Approximately 15 hours of second officer or "type" training and a flight check in the airplane or an FAA-approved simulator will be completed at a facility external to the college.

*Note: This course cannot be certified for veteran benefits.*

#### **AES 4590 - Flight Instructor Practicum**

**Credits:** 2

**Prerequisite(s):** AES 3570, FAA Commercial/Instrument certificate, CFI, Advanced or Instrument Ground Instructor certificate, or Permission of instructor

**Description:** This course provides students practice as a flight instructor in advanced single- and twin-engine flight simulators. It covers all aspects of flight planning and preparation, setup of

simulators, cockpit management, IFR flight procedures and navigation, and emergency procedures using the capabilities of the simulator computers.

### **AES 4601 - Space Flight Operations II**

**Credits:** 3

**Prerequisite(s):** AES 3600

**Description:** Advanced issues related to space operations are investigated in this course. Topics include payload and spacecraft design, bioastronautics, spacecraft control systems, and launch vehicles. Emphasis is placed on current and proposed space transportation systems, space stations, and planetary exploration. Students practice principles of orbital mechanics and related calculations applied to operational management of space vehicles and space stations.

### **AES 4602 - Aerospace Commercialized Operations**

**Credits:** 3

**Prerequisite(s):** AES 3600 and AES 4601

**Description:** This course explores past, current, and proposed business ventures focused on creating commercial opportunities in space. Students will consider factors of risk associated with conducting space business. Case-based analyses and projects designed to understand and conceptualize potential new commercial space organizations will be conducted within the class.

### **AES 4603 - Aerospace Operations Systems Analysis and Design**

**Credits:** 3

**Prerequisite(s):** AES 4601

**Description:** Students are introduced to concepts related to conceptualizing, designing, and integrating commercial space systems. Processes and analytical tools related to systems integration, systems engineering, and operational management are included. Students learn mathematical techniques for assessing risks, optimization, and design trade-offs commonly used by commercial operations in the space industry.

### **AES 4610 - Aerodynamic Design**

**Credits:** 3

**Prerequisite(s):** AES 3530, or permission of instructor

**Description:** Students analyze aerodynamics in both the subsonic and supersonic range. Airfoil theory, the calculations of lift and drag, National Advisory Committee for Aeronautics (NACA) derived airfoils, and their applications will be studied. A wind tunnel laboratory is utilized to conduct experimentation with the Bernoulli equation and Reynolds number and to test aerodynamic properties of various structures.

### **AES 4620 - Elements of Spacecraft Design II**

**Credits:** 3

**Prerequisite(s):** AES 3610 and Junior Standing or Permission of Instructor

**Description:** Examines fundamental methodologies and skills

utilized in spacecraft manufacturing. An overview of the spacecraft design process, spacecraft manufacturing processes including cleanroom protocols and techniques to prevent space hardware damage and contamination is presented. Classroom lab includes projects that examines skills necessary to build and test space hardware. This includes evaluating and demonstrating precision measurements with emphasis on validity and reliability, data collection and analysis of various spacecraft systems performance.

### **AES 4710 - Turboprop Flight Simulation**

**Credits:** 4

**Prerequisite(s):** AES 2710, AES 3710, or FAA Private Pilot Certificate, Instrument Rating, Multi engine rating, and Junior Standing

**Description:** Introduces twin-engine turboprop aircraft operations. Skill is developed in weight and balance computations and use of performance charts. Normal and emergency procedures are studied specific to turboprop airplane operations. Aeronautical decision-making and cockpit resource management skills are developed. Procedures used in regional air carrier operations are learned.

### **AES 4860 - Aviation Safety**

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** This course provides an overview of the modern approach to aviation safety. Included are analyses of the framework and operation of safety regulations, the role of the National Transportation Safety Board, key safety definitions and statistics, human factors in safety, air traffic safety issues, aircraft safety systems, airline safety programs, and safety management systems. The focus is on understanding causal and contributing factors to aircraft accidents and incidents and developing risk management, and organizational and regulatory strategies to improve safety.

### **AES 4870 - Aviation Safety Program Management**

**Credits:** 3

**Prerequisite(s):** Completion of all required 3000-level AES courses and Senior standing

**Description:** This course addresses requirements to develop comprehensive safety programs for aviation organizations at aviation facilities. Included are the philosophy of operations and support of air transportation; the dynamics of interpersonal relationships; Quality Assurance (QA) and Quality Control (QC); effective communications techniques; correct procedures for handling FAA, NTSB, and OSHA investigations and reports; and effective proactive management to obtain federal legislation in support of accident prevention, safety, and health programs. Federal Emergency Management Agency (FEMA) emergency planning and Disaster Recovery planning are covered. Emphasis is placed on the management of aviation safety programs.

### **AES 4910 - Aviation and Aerospace Strategic Planning**

**Credits:** 3

**Prerequisite(s):** Aviation and Aerospace Management or Science

Major and junior standing or permission of instructor

**Description:** This capstone course requires the student to demonstrate and have critiqued their knowledge, skills, and critical thinking abilities in strategic planning as applied to current topics in aviation and aerospace science. Students must demonstrate analytical and interpretive abilities, along with professional level communications skills. Emphasis is placed on decision making ability applied to the aeronautical or aerospace discipline of choice. Students are mentored in industrial trends, best practices, and regulatory issues that address modern industry challenges. Students are further prepared through a professional development certificate process and must develop a career plan and portfolio for assessment by the instructor.

*Note: Credit will be granted for only one prefix: AES or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HON 4910

### **AES 4930 - Professional Flight Standards Seminar**

**Credits:** 3

**Prerequisite(s):** Senior status

**Description:** This course is a senior level capstone course for Aviation Technology majors. It is an academic survey of Crew Resource Management, organizational communication, aviation psychology, strategies, principles and contemporary issues in aviation with a practical emphasis on advanced cockpit automation.

**University Requirement(s):** Senior Experience

### **AES 4935 - Advanced Commercial Aircraft Systems**

**Credits:** 4

**Prerequisite(s):** AES 3000, AES 3530, AES 4040, and Junior Standing

**Description:** This course gives the air carrier first officer candidate an operational knowledge of modern air carrier aircraft systems. This includes powerplant, fuel, electrical, hydraulic, pneumatic, air conditioning, pressurization, avionics, flight controls, fire protection, and ice and rain protection systems. It also provides instruction in normal, irregular, and emergency procedures.

## **Banking**

### **BNK 2700 - Introduction to Banking**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; and Completion of General Studies Quantitative Literacy Requirement

**Description:** This course introduces students to banking, the different services in the banking industry, and the role of banks in the economy in preparation for a career in the banking industry. Topics include, but not limited to, banking functions (such as deposits, loans, and investments), the management of risk in the banking industry, the responsibilities of banks towards customers and other stakeholders, and the government regulation of banks.

### **BNK 3600 - Management of Banking Operations**

**Credits:** 3

**Prerequisite(s):** BNK 2700

**Description:** In this course, students will develop a broad understanding of how decisions are made in banks with a focus on banks' retail operations. Students will closely examine bank consumer services such as savings and checking accounts, mortgages, personal loans, credit cards, and certificates of deposit. Students will also examine the roles of bank leadership, different roles of bank employees, study different measures of bank performance, and discuss how loans are evaluated. Students will be introduced to the composition and characteristics of bank assets and liabilities, to interest rate risk, and to regulatory capital requirements.

### **BNK 3800 - Culture and Practice of Compliance**

**Credits:** 3

**Prerequisite(s):** BNK 3600

**Description:** Compliance is increasingly important in American corporations as firms develop programs and offices whose role is to ensure that they comply with all relevant laws and regulations. These offices also train workers on these regulations and encourage them to behave legally and ethically. This course will cover the practical issues involved in the development of a compliance office and in the implementation of a corporate compliance program. Students will examine the three lines of defense in compliance, as well as the roles of tone, training, and monitoring. The course will also discuss examples of cases where corporations have deviated from legal or ethical standards, the role of a compliance office, and the legal and ethical responsibilities of a chief compliance officer. Students will also develop the skills necessary to maintain a strong compliance program, such as auditing strategies, interviewing and document review, and drafting documents for an intended audience of executives or regulatory agencies.

### **BNK 3900 - Regulatory Environment of Banking**

**Credits:** 3

**Prerequisite(s):** BNK 3600

**Description:** There is a long list of regulations that apply specifically to the banking industry: the Bank Secrecy Act, multiple consumer protection acts, lending requirements, credit reporting, fair debt collection, and many others. This course will cover the historical evolution of bank regulation, give an overview of UDAAP, the existing 'alphabet soup' of regulations, and reporting requirements. Students will also discuss how regulations affect profits, explore the size of the regulatory burden of banks, estimate the costs and benefits of regulation, and establish an informed opinion on an optimal level of regulation. Students will also review the history financial crises and the impact of legislative and regulatory changes on the activities by U.S. banks.

### **BNK 4600 - Risk Analysis for Financial Services Organizations**

**Credits:** 3

**Prerequisite(s):** BNK 3600

**Description:** This course examines firms' operational and financial risks and the methods available to handle that risk, with a particular focus on finance and banking. Students will explore strategic, financial, legal, and regulatory risks. Particular attention will be paid

to loan and credit management, forms of measuring the risk of credit, and banking and insurance capital requirements. Students will learn to assess the level of risk and to make recommendations on how to reduce that risk.

### **BNK 4750 - Case Studies in Compliance**

**Credits:** 3

**Prerequisite(s):** BNK 3800

**Description:** Students will receive hands-on training in compliance through an analysis and evaluation of real world situations. Students work on cases to spot the regulatory or compliance concerns, develop an audit plan, draft an investigatory report, and propose a remediation plan. Students will work as a compliance team to resolve issues in a way that protects the rights of customers and the profits of the firm.

## **Beverage Management**

### **BVG 1910 - Introduction to Homebrewing and Fermentation**

**Credits:** 3

**Description:** This course applies homebrewing and professional brewing principles in a laboratory and lecture setting. It is an introduction to the basic principles of fermentation with an emphasis on brewing beers at home. The selection and use of water, grains, hops, fruit, sugar, yeast, and other ingredients will illustrate how beer, wine, cider and mead are made. Class laboratory activities provide practical application of the principles of style selection, ingredient selection, malting, brewing, cooling, fermentation, aging, and packaging of beer. Similar principles for food, wine, mead and cider will apply and be discussed and experimented with. The quality of the ferment and steps needed to understand and improve fermentation will also be explained.

### **BVG 2015 - Beverage Fundamentals**

**Credits:** 3

**Description:** This course provides an overview of responsible beverage service. Practical hands-on experience focuses on how to manage the beverage operation of a restaurant, hotel and event business and its relationship to sustainable tourism. Students learn the requirements to equip, staff, manage, and market beverage operations. Classroom activities allow for student appraisal and evaluation of the preparation and service of beverages. Course assignments and activities provide a review of the major commercially available beverages of the world to build student awareness of the procurement and selection of quality beverages for hospitality operations.

### **BVG 2350 - Brewery Mechanics**

**Credits:** 3

**Prerequisite(s):** MTH 1110

**Description:** Students are introduced to multiple tasks associated with brewery operation and maintenance. Students engage in an overview of mechanical, electrical, plumbing, HVAC, and cleaning systems identification and operation. Preventative maintenance, cleaning/sanitation standards, safe handling of equipment, and

movement of product and ingredients through the brewing process will also be covered.

### **BVG 3010 - Beers of the World**

**Credits:** 3

**Prerequisite(s):** Students must be at least 21 years of age.

**Description:** This course is an overview of the beer styles of the world. The development of beer styles includes the historical, environmental and cultural influence of global beer regions. Global beer styles are analyzed through sensory analysis and evaluating the presentation and service of beers and their accompanying foods. The components of beer, manufacturing techniques and cultural influences on beer styles will provide a framework for understanding beer style. Classic beer styles in the current American craft brewing industry will be examined.

### **BVG 3220 - Beer and Food**

**Credits:** 3

**Description:** In this course, students will study the proper use of professional kitchen equipment to prepare recipes that emphasize beer as the key ingredient. Kitchen and restaurant laboratory activities emphasize the techniques and principles of cooking that enhance the interaction of beer and food when prepared, served and tasted together. The student will be introduced to the various cooking methods of foods and how preparation effects the interaction with beer. Students experience the planning, service, and cost analysis of beer and food pairing menus in a professional restaurant setting.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

### **BVG 3350 - Brewery Operations**

**Credits:** 3

**Description:** Students will be introduced to the principles of brewery management that are critical to the planning, operation and sustainment of a successful brewing operation. Students will formulate plans for managing the key aspects of brewery operations, legal requirements, equipment, supplies, maintenance, and safety of a successful brewery and tasting room.

### **BVG 3500 - Bar and Beverage Operations**

**Credits:** 3

**Description:** This course is an exploration of bar and beverage operations and how it affects all facets of the hospitality industry. Students develop an awareness of beverage styles through taste appraisal of water, coffee, tea, wine, beer, spirits, sake, ciders and emerging beverage styles. An awareness of beverage operations develops through review of beverage service styles, themes, and design to determine the requirements to equip, staff, manage, and market beverage operations.

### **BVG 3613 - Wine Fundamentals**

**Credits:** 3

**Description:** This course is designed for the student who wishes to learn the basics of wine knowledge for personal gratification as well as to serve the student who expects to have a professional interest in the selection and service of wine. Viticulture, vinification, service and critical appraisal of wines of the major wine regions of the world are covered.

### **BVG 3683 - Beer and Spirits**

**Credits:** 3

**Description:** This course provides a practical experience of brewing beer and distilling spirits. Course activities enhance an understanding of the scientific and technical aspects of malting, brewing, fermenting, finishing, and conditioning beer. Spirit distillation activities extend upon scientific and technical brewing and fermentation to include the steps in the distillation process and aging of spirits. Students engage in sensory analysis of global beer and spirit styles to gain perspective on the level of quality and aspects of style apparent in commercial brands.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-80 I C.L.C) and comply with department consumption policies.*

### **BVG 3750 - Alcohol Beverage Law**

**Credits:** 3

**Description:** In this course students are introduced to the concepts and information regarding legally creating and selling alcohol in Colorado and the United States. Students will delve into the complex and ever-changing world of brewery licensing, alcohol distribution laws, city zoning, real estate contracts and proper labeling and selling of beer, spirits and wine. Furthermore, students will learn the basics of creating a corporation or company and becoming legally compliant to sell beer through both a tasting room and through off-premises accounts such as liquor stores and restaurants. This class will focus on Colorado laws, however, all 50 states will be covered so students are prepared to work around the country. Upon completion, students will be able to feel confident in avoiding pitfalls and errors commonly seen with startup breweries.

### **BVG 3810 - Sensory Quality Analysis of Beer**

**Credits:** 3

**Description:** Students are introduced to the biological and chemical principles that lead to aromatic, taste, and taste expressions in beer. Students develop and practice procedures for sensory evaluation of beer. The appropriate uses of specific tests are discussed, along with physiological, psychological, and environmental factors affecting sensory verdicts. Upon completion of the course, students are expected to be able to run a brewery sensory panel, formulate a methodology for addressing the test objectives, analyze test results, draw conclusions, and make test recommendations. Specific quality analysis of beer faults is practiced in the classroom and sensory classroom exercises.

### **BVG 3950 - Beverage Promotion**

**Credits:** 3

**Description:** Students are introduced to the principles of selling and brand marketing of beverage products. Students focus on relationship building, communication and sales promotion in the context of a wide range of alcoholic and nonalcoholic beverages. Students develop an understanding of brand identity and strategies to communicate corporate vision and product value to customers.

### **BVG 4010 - Beer Styles and Service**

**Credits:** 3

**Prerequisite(s):** BVG 3010

**Description:** In this course, students will study the recognized beer styles common of traditional and modern interpretations of worldwide beer regions. The cultural history and the interaction of local customs in the production and service of regional beers is an important aspect of beer style. In-depth sensory analysis of appropriate aromas, foam, color, and tastes of beers are reviewed in open and blind tastings. Recognition of faults common in beer brewing are an integral component to laboratory activities, including production and storage flaws, as well as aspects of service that enhance and detract from beer quality. Draft systems and appropriate design, operation, and maintenance of direct draw, pump, and mixed gas systems are reviewed and practiced in laboratory settings.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

### **BVG 4220 - Brewing Fermentation**

**Credits:** 3

**Prerequisite(s):** BIO 2400, BVG 4350

**Description:** Students will be introduced to an overview of the modern and traditional brewing fermentation processes. Laboratory activities and assignments complement course activities related to the microbiology of fermentation and brewing with yeast. The techniques of brewing with yeast are reviewed and executed by students to highlight appropriate management systems for fermentation in a brewery. Students will ferment, bottle, can, or keg, as well as serve several batches of beer in different manners, with different microorganisms, to harness a dynamic skill set. The collection, storage, and handling of yeast in the brewery are reviewed as is microbiology quality assurance and quality control.

### **BVG 4350 - Brewing Science**

**Credits:** 3

**Prerequisite(s):** BIO 2400, CHE 2100

**Description:** The course applies brewing science principles in a laboratory setting. The selection of water, grains, hops, and adjunct ingredients illustrate how plant physiology, biochemistry, and microbiology relate to the brewing of beer. Class laboratory activities provide practical application of the principles of beer style selection, malting, brewing, cooling, fermentation, aging, and packaging of

beer. The quality of beer is illustrated throughout the brewing process, including the relative environmental impact and outcomes of commercial brewing.

### **BVG 4613 - Wines of the Old World**

**Credits:** 3

**Description:** In this course, students will examine the old world wine regions of Europe. Students will compare and contrast major historical and cultural events that have given shape to these vineyards and created a strong wine culture. There is a strong emphasis on the growing and harvesting logistics of location as well as climate and heritage. Class discussion is complemented by tastings of selected wine groups.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

### **BVG 4623 - Wines of the New World**

**Credits:** 3

**Description:** In this course students critically examine the agricultural and wine making characteristics that create unique wine styles in emerging regions, known as the new world of wine. Regional analysis includes wines from the Americas, Africa, and Australasia. Extensive evaluation of new world wines through blind tasting provides a measure of student evaluation of wine components unique to their regional classification. Tours of local wineries provide opportunities to examine and inspect the production methods of various styles of wine.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

### **BVG 4633 - Wine and Food**

**Credits:** 3

**Description:** In this course students practice evaluation of wines and begin to analyze how wines interact with foods. examine specific interaction of food and wine components and how each interacts to create foundations of taste. Critical analysis of food and wine pairing includes the preparation of foods, menu and recipe development with an understanding of flavor of food and wine and how their architecture relates to the dining experience. Practical in restaurant service techniques and hands-on food production will be appraised as well as critical reviews of wine lists and food and wine pairings. A gourmet dinner service activity will provide practical application for food preparation relating wine pairing and service skills.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

### **BVG 4810 - Brewing Quality Analysis**

**Credits:** 3

**Prerequisite(s):** BVG 4350

**Prerequisite(s) or Corequisite(s):** BVG 4220

**Description:** This course addresses the science of beer quality. The various impacts on the perception of beer quality from raw ingredient selection, handling, processing, packaging, and service of beer are reviewed through detailed class lecture and laboratory experience. The biochemical and hedonistic evaluation of beer quality at all stages of production and service are practiced in laboratory and service settings in order to manage quality attributes of beer and how they can be delivered to the consumer. The course is vital to brewing production managers who aim to account for the science of beer appearance, flavor, stability and wholesomeness.

### **BVG 4850 - Applied Brewing Operations**

**Credits:** 3

**Prerequisite(s):** Minimum 90 credit hours completed; BVG 3810; or permission of department

**Description:** In this course, students apply the theoretical concepts of brewing, distributing, and alcoholic beverage management to a practical learning experience. The course includes field experience in a practical or theoretical setting. Students synthesize related literature and theory to real experiences in the development of a brewing project. Following product design or business management practices, students apply current tenets of management to position a product for market distribution or to examine value change operations. External assessment of beers, production, and distribution plans are reviewed with industry partners to verify student expertise and mastery of the art and science of beer design, management principles, production, marketing, and distribution.

**University Requirement(s):** Senior Experience

### **BVG 4950 - Enology: The Making of Wine**

**Credits:** 3

**Prerequisite(s):** HTE 3613 or BVG 3613 or Approval of Instructor

**Description:** In this course, students will study winemaking principles, including, harvest, crushing, pressing, wine microorganisms, fermentation, and operations. Topics include wine making in both traditional and nontraditional methods, cap management, yeast and malolactic inoculation, wine microbes, barrel aging, racking, filtration and bottling. Coursework integrates lecture, field visits to vineyards and wineries, and hands-on winemaking.

*Note: All students must present valid ID in order to be served alcohol. Students under the age of 21 years may taste, but not consume alcohol under the State of Colorado "Sip and Spit" law (18-13-122, C.R.S., 12-47-801 C.L.C) and comply with department consumption policies.*

## **Biology**

### **BIO 398A - Internship in Medicine**

**Credits:** 1-12

**Prerequisite(s):** Major in biology; junior or senior status; permission

of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with The Internship Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable Credit*

### **BIO 398B - Internship in Nursing**

**Credits:** 1-12

**Prerequisite(s):** Major in biology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with The Internship Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable Credit*

### **BIO 1000 - Human Biology for Non-Majors**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

**Description:** This one-semester course familiarizes the student with the principles of the living world, the basic form and function of the human body, and how these two relate to each other. Basic variations of life forms, and the interrelationships of the human body to the surrounding world are the main thrusts of the course.

*Note: This course does not apply toward a biology major or minor.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **BIO 1030 - General Biology for Non-Majors**

**Credits:** 4

**Description:** This one-semester course familiarizes the student with the principles of the living world at all levels ranging from molecules to ecosystems. Basic similarities and differences in cellular mechanisms, organismal organization, and ecological processes are identified, with focus placed on the evolutionary principles that interconnect all forms of life including humans.

*Note: This course does not apply toward a biology major or minor.*

**General Studies:** Natural and Physical Sciences

### **BIO 1080 - General Biology I**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing and mathematics preassessment placement tests

**Corequisite(s):** BIO 1090

**Description:** This introductory course serves as the foundation for all other biology courses. Emphasis is placed on cellular and molecular biology, biochemical pathways, and genetics.

*Note: Credit will be granted for only one prefix: BIO or HON. A student must successfully pass both BIO 1080 and BIO 1090 to receive General Studies credit.*

**General Studies:** Natural and Physical Sciences

**Cross Listed Course(s):** HON 1080

### **BIO 1081 - General Biology II**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090; or permission of instructor

**Corequisite(s):** BIO 1091

**Description:** This course is a continuation of General Biology I (BIO 1080). Coursework emphasis is placed on evolution, ecology, and the classification, diversity, and structure of plants and animals.

*Note: A student must successfully pass both BIO 1081 and BIO 1091 to receive General Studies credit.*

**General Studies:** Natural and Physical Sciences

### **BIO 1090 - General Biology Laboratory I**

**Credits:** 1

**Prerequisite(s):** Minimum performance standard scores on reading, writing and mathematics preassessment placement tests

**Corequisite(s):** BIO 1080

**Description:** This mandatory laboratory accompanies BIO 1080. This course introduces biology laboratory techniques, specifically exploring the scientific method.

*Note: Credit will be granted for only one prefix: BIO or HON. A student must successfully pass both BIO 1080 and BIO 1090 to receive General Studies credit.*

*The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.*

**General Studies:** Natural and Physical Sciences

**Cross Listed Course(s):** HON 1090

### **BIO 1091 - General Biology Laboratory II**

**Credits:** 1

**Prerequisite(s):** BIO 1080 and BIO 1090; or permission of instructor

**Corequisite(s):** BIO 1081

**Description:** This mandatory laboratory accompanies BIO 1081. This course will explore and reinforce concepts introduced in BIO 1081 through laboratory and field exercises in ecology, evolution and diversity.

*Note: A student must successfully pass both BIO 1081 and BIO 1091 to receive General Studies credit.*

*The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend*

labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.

**General Studies:** Natural and Physical Sciences

### **BIO 2000 - Introductory Microbiology for Nursing**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090 and one semester of chemistry (CHE 1800 or CHE 1100) or permission of instructor

**Description:** This course is a non-majors introductory microbiology course specifically for pre-nursing. It will not count toward a biology major or minor. This course emphasizes the interplay between microorganisms and humans including infectious diseases and the immune system and has an emphasis on the control of microbial growth, spread of microorganisms, and their ability to cause disease and circumvent the immune system and antimicrobials. The course is accompanied by a laboratory that introduces the ubiquity and diversity of microbes, basic microscopy, identification of microbes, physical and chemical control of microorganisms to enable nursing to learn how to avoid the spread of microorganisms in clinical settings.

*Note: The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.*

### **BIO 2100 - General Botany**

**Credits:** 5

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or Permission of instructor

**Description:** This is a one-semester introductory survey of photosynthetic life with emphasis on key events in the evolution and diversification of cyanobacteria, algae, and land plants, evolutionary relationships among major taxa, the chemistry of photosynthetic processes, and an introduction to the life cycles, anatomy, and morphology in major groups of cyanobacteria and photosynthetic eukaryotes.

*Note: The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.*

### **BIO 2310 - Human Anatomy and Physiology I**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090 or Permission of instructor

**Description:** This is the first of two courses addressing the structure and function of the human body. Topics include tissues, anatomy, the musculoskeletal system, and neurophysiology. Course content and level are designed for allied health science students and for human performance and sport or recreation professions majors.

### **BIO 2320 - Human Anatomy and Physiology II**

**Credits:** 4

**Prerequisite(s):** BIO 2310 or Permission of instructor

**Description:** This is the second of two courses addressing the structure and function of the human body. Topics include endocrinology; circulation; and the respiratory, digestive, urinary and reproductive systems. Course content and class level are designed for allied health science students and for human performance and sport or recreation professions majors.

### **BIO 2400 - General Microbiology**

**Credits:** 5

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, one semester of college chemistry, or Permission of instructor

**Description:** This course is an introduction to the microbial sciences, including the various members of the microbial world and their metabolic, genetic, clinical, and ecological mechanisms.

*Note: The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.*

### **BIO 3000 - Advances in Biology**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090 and CHE 1800 or Permission of instructor

**Description:** The course examines the impact of modern science and technology on the future development of biological science. Topics include space and diving physiology, the impact of the information revolution (computers and the Internet), the science of exobiology, new techniques to study biology, directions in modern medicine, and nanotechnology.

### **BIO 3020 - Laboratory Techniques**

**Credits:** 2

**Prerequisite(s):** BIO 1080, BIO 1081, BIO 1090, BIO 1091 or permission of instructor

**Prerequisite(s) or Corequisite(s):** CHE 1800

**Description:** This laboratory course provides experience performing laboratory techniques in molecular biology. Topics include a review of basic laboratory skills, preparation of buffers, use of instrumentation and advanced techniques such as cell fractionation, electrophoresis, and PCR.

### **BIO 3050 - Cell Biology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or permission of instructor

**Prerequisite(s) or Corequisite(s):** CHE 2100 or CHE 3100, or permission of instructor

**Description:** This course is an intensive study of the eukaryotic cell, cellular structure, and organization. Emphasis is placed on the molecular mechanisms underlying cell functions, including intracellular transport and transport across membranes, cytoskeletal proteins and cellular motility, metabolic pathways and energy

production, photosynthesis, cell cycle and cellular growth, cell signaling pathways, and stem cells.

### **BIO 3120 - Economic Botany**

**Credits:** 4

**Prerequisite(s):** BIO 2100; or permission of instructor

**Description:** This course investigates the diversity of plants and their relationships with man as food, fibers, chemicals, and medicines. Consideration will be given to plants useful or harmful to humans: their origins and history; botanical relationships; economically important chemical constituents; and their roles in prehistoric and modern cultures and civilizations.

### **BIO 3140 - Plant Physiology**

**Credits:** 5

**Prerequisite(s):** BIO 2100 or Permission of instructor

**Description:** This course is a comprehensive survey of the internal chemical changes within plants and how these changes control growth and development. Discussions include water relations, transpiration, food transport, ion uptake, photosynthesis, respiration, plant movements, flowering, dormancy, and senescence.

### **BIO 3160 - Plant Anatomy and Morphology**

**Credits:** 4

**Prerequisite(s):** BIO 2100 or Permission of instructor

**Description:** This course is a survey of cell types, tissue systems, and the anatomical structure of stems, roots, and leaves of vascular plants. The development and evolutionary history of vascular plants will be discussed.

### **BIO 3170 - Paleobotany**

**Credits:** 4

**Prerequisite(s):** BIO 2100

**Description:** This course examines the history of plant form and function as shown in the fossil record. The investigation of evolutionary relationships of modern plant groups unifies the course. Students consider the process of fossilization and techniques of reconstructing whole plants from fragmentary remains. A synthesis of biological and geological perspectives provides insights into the paleoecological relationships of the ancient communities in which these organisms lived. An introduction to the use of plant fossils in biostratigraphy and their roles in coal, oil and gas formation are considered. Class sessions include demonstrations, as well as frequent hands-on interaction with fossil plant specimens.

### **BIO 3180 - Vascular Plant Taxonomy**

**Credits:** 4

**Prerequisite(s):** BIO 2100 or Permission of instructor

**Description:** This course is a survey of vascular plant identification and taxonomic classification with an emphasis on Colorado flora. Lecture content includes plant terminology, systematics methods, phylogenetic relationships and characteristics of major vascular plant families. Laboratories cover plant identification using keys in the

field and on herbarium specimens, basic systematics methods, and standard herbarium practices. Students are required to prepare an herbarium collection of Colorado vascular plant specimens collected in the field.

### **BIO 3200 - Invertebrate Zoology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or Permission of instructor

**Description:** This course includes classroom, laboratory, and field study of phylogeny, structure, function, development, and conservation of invertebrate animals. The course emphasizes diversity, evolutionary changes, and adaptation to the environment. Topics range from the molecular to the ecological level of study.

### **BIO 3210 - Histology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, and BIO 1081 and BIO 1091, or BIO 2310, or BIO 2320, or Permission of instructor

**Description:** A comprehensive study of the microscopic structure and appearance of body tissues and of the tissue composition of body organs, mainly as seen in mammals. Emphasis is placed on the laboratory. Correlations are drawn between structure and function. Laboratory drawings and digital images are required.

### **BIO 3220 - Comparative Vertebrate Anatomy**

**Credits:** 5

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or Permission of instructor

**Description:** A comprehensive study is made of the evolution of structure and function of vertebrates. The laboratory portion of the course is emphasized and will consist of detailed dissections of vertebrates representing several classes.

### **BIO 3230 - Principles of Human Anatomy and Physiology for Secondary Education**

**Credits:** 5

**Prerequisite(s):** BIO 1080/BIO 1090 or Permission of instructor

**Description:** This course addresses the structure and function of the human body. Topics include homeostasis, tissues, the musculoskeletal system, neurophysiology, endocrinology, circulation, and respiratory, digestive, urinary, and reproductive systems. Course content and class level are designed only for students who are biology majors seeking licensure in secondary science education.

*Note: This course will not count for biology credit for any other biology majors and will not substitute for BIO 2310 and BIO 2320.*

### **BIO 3240 - Animal Behavior**

**Credits:** 4

**Prerequisite(s):** BIO 1080, BIO 1081, BIO 1090, and BIO 1091

**Description:** This course serves as an in-depth and current account of the interdisciplinary science of Animal Behavior. Beginning with a review of both historical and modern approaches, behavioral

psychology and behavioral ecology will be comprehensively examined with an emphasis on evolution. The accompanying laboratory will highlight scientific methodology by incorporating both descriptive and experimental studies of Animal Behavior in laboratory and field settings.

#### **BIO 3260 - Vertebrate Zoology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091 or Permission of instructor

**Description:** This course examines the origin, evolution, classification, morphology and adaptation of the vertebrates.

#### **BIO 3270 - Parasitology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO1091, BIO 3200, and at least junior standing

**Description:** This course is an overview of the most important groups of eukaryotic parasites in human and veterinary medicine. It emphasizes concepts ranging from parasite diversity to how the fundamental aspects of parasitism such as complex life cycles and transmission pathways affect the evolutionary biology, ecology, behavior, and clinical response of host organisms.

*Note: The Biology Department requires students who do not attend the first week of scheduled laboratory sessions to drop that course. Those students who do not drop the course will not be permitted to attend labs the rest of the semester, will receive an F in the course, and will be responsible for all tuition and fees incurred.*

#### **BIO 3280 - Field Ornithology**

**Credits:** 2

**Prerequisite(s):** BIO 1080, BIO 1090, BIO 1081, BIO 1091, and permission of instructor

**Description:** This is a comprehensive course on the field aspects of ornithology. Students will learn proper identification techniques and methods for conducting independent research in the area of avian behavior, conservation and ecology.

#### **BIO 3300 - Advanced Human Biology for Non-Majors**

**Credits:** 3

**Prerequisite(s):** BIO 1000 or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course is designed to be an advanced sequel to BIO 1000. It addresses the more complex aspects of human body functions and how the body deals with insults such as bombardment of microorganisms, various dietary practices, pollution, and socio-economic challenges. Topics include immunity, AIDS, genetics, stress, cancer, and aging.

#### **BIO 3320 - Advanced Human Physiology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 2310, BIO 2320, one

year of chemistry

**Description:** This in-depth physiology course covers the function of the human body as it relates to homeostasis. This course emphasizes membrane transport, fluid compartments, acid-base balance, cardiovascular and respiratory physiology, and neurotransmission.

#### **BIO 3330 - Advanced Human Cadaver Anatomy**

**Credits:** 5

**Prerequisite(s):** BIO 1080, BIO 1090, BIO 2310, and upper-division standing

**Prerequisite(s) or Corequisite(s):** BIO 2320

**Description:** This course presents human gross anatomy from a regional perspective, utilizing cadaver dissection and clinical application as a foundation for anatomical understanding. Designed for biology majors entering professional and graduate programs.

#### **BIO 3340 - Endocrinology**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090, and two additional semesters of biology; CHE 3100 recommended; or Permission of instructor.

**Description:** This course is a survey of the major human endocrine organs and their hormones. Topics include normal anatomy and physiology of each gland, cellular mechanisms of hormone action, and endocrinopathies.

#### **BIO 3350 - Immunology**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 2400, BIO 3600 or BIO 3610, and junior or senior standing, or permission of instructor

**Description:** This course will familiarize students with the complexity of the immune system. The goals of the course encompass understanding the importance of the immune system, its components, the responsibilities of each of the components, how the immune response combats different kinds of infectious agents including bacteria, fungi, parasites, and viruses, what happens to cause autoimmunity, what happens during allergic reactions, and how the immune system is responsible for transplant rejection.

#### **BIO 3351 - Immunology Laboratory**

**Credits:** 1

**Corequisite(s):** BIO 3350

**Description:** This is an optional laboratory course that introduces students to the theories and skills of standard procedures used in an immunology laboratory. Students perform various immunological techniques, including leukocyte enumeration, agglutination, and precipitation assays. Students also utilize a variety of techniques to purify, quantify, and visualize antibody from serum.

#### **BIO 3360 - Animal Physiology**

**Credits:** 4

**Prerequisite(s):** BIO 3200 or BIO 3260 and CHE 1810, or Permission of instructor

**Description:** This is a lecture course for science majors on the physiological processes common to most animals and on the physiological adaptations and acclimation to environmental challenges- especially with respect to temperature, moisture, and oxygen availability.

#### **BIO 3400 - Microbial Physiology**

**Credits:** 4

**Prerequisite(s):** BIO 2400 or equivalent or Permission of instructor

**Prerequisite(s) or Corequisite(s):** CHE 3100 or equivalent or permission of instructor

**Description:** A detailed study of the organization and structure of bacterial cells is presented. An emphasis is placed on biosynthesis, polymerization, and assembly of bacteria.

#### **BIO 3410 - Symbiosis and the Environment**

**Credits:** 3

**Prerequisite(s):** BIO 2400 and One Year of College Chemistry; or permission of instructor

**Description:** This course provides an overview of the diversity of mutualistic symbioses and their critical roles in the natural environment, including coral reef, hydrothermal vent, cellulose degrading, mycorrhizal ecosystems. This course takes an integrative approach, spanning ecosystems to molecules, to study these associations.

#### **BIO 3471 - Biology of Women**

**Credits:** 3

**Prerequisite(s):** BIO 1000 or GWS 1001 or Permission of instructor

**Description:** An examination of the anatomy and physiology of sex in humans, the mechanisms involved in formation of sex and gender, and the interactions between science, society, and medical practice with regard to issues of sex and gender.

*Note: Credit will be granted for only one prefix: BIO, GWS, or HON.*

**Cross Listed Course(s):** GWS 3470, HON 3471

#### **BIO 3511 - Anatomy and Physiology of Speech and Hearing**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090 or permission of instructor

**Prerequisite(s) or Corequisite(s):** SLHS 2530 or permission of instructor

**Description:** This course provides students with a foundation in the structural and functional organization of the systems that support speech and hearing. The mechanisms of swallowing are also reviewed. Students explore how anatomical and physiological changes may impact sound perception and production.

*Note: Credit will be granted for only one prefix: SLHS or BIO. Students must achieve a C or better to count towards an SLHS degree or certificate. Other programs may have different minimum grade requirements.*

**Cross Listed Course(s):** SLHS 3530

#### **BIO 3520 - General Ecology**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, and College Algebra (MTH 1109, MTH 1110, MTH 1111, MTH1112 or MTH 1115), or permission of the instructor.

**Description:** This lecture course examines the interrelationships between organisms and their environments. Subject matter includes organism, population, community, and ecosystem levels of study and application to current environmental issues. The emphasis is on the underlying principles of ecology that affect all types of organisms.

#### **BIO 3530 - Physiology of Aging**

**Credits:** 3

**Prerequisite(s):** BIO 2310 and BIO 2320

**Description:** This course views aging from biological perspectives, explores theories of aging, and examines individual and cultural variations in the aging process. These themes form a backdrop to a detailed study of age-related structural and functional changes in the bodily systems, as well as the common diseases associated with each system. Successful aging will be emphasized through an examination of the modifiable risk factors for senescence and age-associated diseases.

**Cross Listed Course(s):** ITP 3700

#### **BIO 3600 - General Genetics**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, College Algebra (MTH 1109, MTH 1110, MTH 1111, MTH 1112, or MTH 1115), CHE 1100 or CHE 1800, and one additional semester of biology required, or permission of instructor.

**Description:** A study is made of classical genetics, with emphasis on numerical analysis of inheritance. The molecular biology of replication, transcription, and translation is presented. Genetic variation and human genetic diseases are discussed.

*Note: Students cannot take both BIO 3600 and BIO 3610 for credit.*

*Credit will be granted for only one prefix: BIO or HON.*

**Cross Listed Course(s):** HON 3601

#### **BIO 3610 - Genetics: Principles and Analysis**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, CHE 1100 or CHE 1800, and one additional semester of biology required or permission of instructor.

**Description:** This course includes lectures and laboratories. The lecture portion covers classical genetics, with emphasis on numerical analysis of inheritance, and molecular genetics of replication, transcription, translation, and regulation. The laboratory portion allows hands-on work that illustrates principles presented in the lecture and provides an opportunity for the presentation of scientific results and theories.

*Note: Students cannot take both BIO 3600 and BIO 3610 for credit.*

#### **BIO 3980 - Internship in Biology**

**Credits:** 1-4

**Prerequisite(s):** Department approval required for registration

**Description:** Students engage in an on- or off-campus internship experience that applies biological principles to practical experiences in professional settings, e.g., laboratory, clinical, museum, fieldwork, etc. Internships provide practical, hands-on experience in science and are supervised by a Biology Department faculty member. Internship placements must be established prior to enrollment in this course in consultation with the supervising faculty member and the university internship program.

*Note: A maximum of 4 credits of teaching assistant/independent study/internships/practicum/undergraduate research may be applied toward a major or minor in Biology.*

### **BIO 3990 - Teaching Assistant in Biology**

**Credits:** 1-4

**Prerequisite(s):** Department approval required for registration.

**Description:** Teaching assistants participate in classroom/laboratory activities to support student learning in a Biology course under the direct supervision of an instructor. Students may only register as a teaching assistant in Biology after satisfactory completion of the course for which they apply and they must meet with a specific professor who teaches that course. A maximum of 4 credits of teaching assistant/independent study/internships/practicum/undergraduate research may be applied toward a major or minor in Biology.

### **BIO 4000 - Biology Field Experience: Variable Topics**

**Credits:** 3

**Prerequisite(s):** BIO 1081 and BIO 1091; or Permission of instructor

**Description:** This course is designed to give hands-on experience in a variety of field environments with 30 hours of predeparture lectures and 30 hours of field work in a regional, national, or international setting.

*Note: This course may be repeated for credit under different topics with permission of the department.*

### **BIO 4050 - Advanced Cell and Molecular Biology**

**Credits:** 3

**Prerequisite(s):** BIO 3050 or CHE 4310 or permission of instructor, senior standing

**Description:** This course provides an in-depth analysis of selected topics from cell and molecular biology, including cell signaling, regulation of the cell cycle, and control of protein expression and function through cytosolic mechanisms, change in gene expression, or epigenetic change. The field of translational research, as it applies to basic research and clinical practice, will be emphasized.

### **BIO 4060 - Cellular and Molecular Biology Laboratory**

**Credits:** 2

**Prerequisite(s) or Corequisite(s):** BIO 3050; or permission of instructor

**Description:** This laboratory is designed to give students experience and exposure to modern cell biology laboratory techniques. Topics include cell structure, function, recombinant DNA, and molecular cloning.

### **BIO 4070 - Biology of Cancer**

**Credits:** 3

**Prerequisite(s):** BIO 3600 or BIO 3610, and BIO 3050 or permission of instructor

**Description:** This course examines the cellular and molecular bases of cancer, and relates the biological basis of cancer to its clinical manifestations and treatments. The cellular and molecular processes involved in the initiation, promotion, and progression of cancer are examined in detail.

### **BIO 4200 - General Mycology**

**Credits:** 3

**Prerequisite(s):** BIO2400, and BIO3600 or BIO3610, or permission of instructor

**Description:** This course is a general study of the fungi including fungal structure and life cycles, nomenclature, and current classification. Emphasis is on the biodiversity of the fungi and their ecological importance, as well as the parasitic and mutualistic/symbiotic interactions of the fungi with other organisms including plants, animals, microbes, and other fungi.

### **BIO 4230 - Issues in Conservation Biology**

**Credits:** 3

**Prerequisite(s):** BIO 1080, BIO 1090, senior standing

**Description:** Students will explore issues in the subject of conservation biology. This is an integrative subject that applies the fields of ecology, evolution, biogeography, population genetics, economics, sociology, anthropology, philosophy and other disciplines to address the global problem of declining biodiversity of species and ecosystems. Two field trips during the scheduled course time will highlight conservation issues on a local level.

**University Requirement(s):** Senior Experience

### **BIO 4250 - Entomology**

**Credits:** 4

**Prerequisite(s):** BIO 3520; or permission of instructor

**Description:** This course is an intensive introduction to insect diversity, basic biology, ecology and importance to people in economic, forensic and medical/veterinary arenas. Special emphasis is placed on insects living in the Colorado Front Range, including urban, prairie and montane environments.

### **BIO 4280 - Ornithology**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, and eight hours of additional biology courses, or permission of instructor

**Description:** This course is designed so that the student will achieve a general understanding of birds and how they function. This objective requires a synthesis of several fields of zoology (ecology, anatomy, physiology, behavior, evolution, and systematics) as they apply to birds. The laboratory portion of the course will emphasize anatomy, physiology and field techniques for identifying birds of

Denver, Colorado.

**Field Trips:** Required field trips may include one weekend trip.

### **BIO 4290 - Mammalogy**

**Credits:** 4

**Prerequisite(s) or Corequisite(s):** BIO 3260 or permission of instructor

**Description:** This course is a survey of taxonomic, physiological, and anatomic characteristics of modern orders of mammals. Illustrative environmental adaptations and major evolutionary trends will be discussed. The laboratory will include study-skin preparation and identification of representative mammalian species.

### **BIO 4300 - Neurobiology**

**Credits:** 3

**Prerequisite(s):** BIO 2310, or permission of instructor, and senior standing

**Description:** This course covers the organization and function of the nervous system. Emphasis is placed on physiological mechanisms of cells and tissues and how these mechanisms give rise to perception and behavior in vertebrates and invertebrates.

**University Requirement(s):** Senior Experience

### **BIO 4350 - Clinical Immunology**

**Credits:** 3

**Prerequisite(s):** BIO 3350 or permission of instructor

**Description:** This course is an advanced study of the immune response as it relates to clinical disease and immune-based therapies. Content focuses on immunological aspects of infection, hypersensitivity, leukemia, and the various mechanisms by which immunodeficiency and autoimmunity can arise. Immunological strategies for therapeutics will also be explored.

### **BIO 4440 - Virology**

**Credits:** 3

**Prerequisite(s):** BIO 2400, BIO 3600 or BIO 3610, or permission of instructor

**Description:** This course is a survey of the interactions of viruses and their hosts. The emphasis is on bacterial and animal host forms.

### **BIO 4450 - Pathogenic Microbiology**

**Credits:** 5

**Prerequisite(s):** BIO 2400, BIO 3600 or BIO 3610, or permission of instructor

**Description:** This course is a comprehensive study of human bacterial pathogens. The emphasis is on etiology, pathogenesis, and epidemiology of human diseases. Laboratory studies involve isolation and identification.

### **BIO 4470 - Microbial Genetics**

**Credits:** 4

**Prerequisite(s):** BIO 2400, BIO 3600 or BIO 3610, or permission of instructor

**Description:** This course is a study of current information on the mechanisms of microbial inheritance and expression of genetic information; intended to develop perspectives relative to the evolution of the field, applications to higher organisms, and directions in current research.

### **BIO 4510 - Microbial Ecology**

**Credits:** 4

**Prerequisite(s):** BIO 2400, BIO 3520, and one upper-division microbiology and/or molecular biology course; or permission of instructor; completion of General Studies requirements; and senior standing.

**Description:** This course is a detailed study of microbial ecology, emphasizing population interactions, quantitative ecology, habitat ecology, and biochemical cycling. Discussion of biotechnological aspects of microbial ecology is included.

**University Requirement(s):** Senior Experience

### **BIO 4540 - Plant Ecology**

**Credits:** 4

**Prerequisite(s):** BIO 2100 and BIO 3520, or permission of instructor; senior standing; and completion of General Studies requirements

**Description:** This course proceeds from a study of concepts (matter and energy, food webs, nutrient cycles, succession) to a discussion of populations, communities, and biomes, emphasizing the interrelationships and interdependence of living things with each other and with their nonliving environment.

**University Requirement(s):** Senior Experience

### **BIO 4550 - Animal Ecology**

**Credits:** 4

**Prerequisite(s):** BIO 3200 or BIO 3260, BIO 3520, and one additional upper division biology course, or permission of instructor; senior standing; and completion of General Studies requirements

**Description:** In this course, a detailed consideration is made of population dynamics, intra- and interspecific interactions, niche segregation, species diversity, specialization and distributional patterns.

**Field Trips:** Field Trips are required

**University Requirement(s):** Senior Experience

### **BIO 4560 - Field Methods in Plant Ecology**

**Credits:** 3

**Prerequisite(s):** BIO 2100

**Description:** This is an intensive course that covers plant sampling techniques and field methods essential to biological community surveys. Content includes basic ecological principles, plant classification and identification, vegetation sampling methods, statistical data analysis, and report writing and presentation.

## **BIO 4820 - Developmental Biology**

**Credits:** 4

**Prerequisite(s):** BIO 3600 or BIO 3610 or permission of instructor, senior standing

**Description:** This course is a study of animal development and embryogenesis in both vertebrate and invertebrate model systems. Emphasis is placed upon the cellular, molecular, and genetic mechanisms underlying differentiation, morphogenesis, and developmental pattern formation. The laboratory includes study of living embryos and larva. Laboratory drawings are required.

**University Requirement(s):** Senior Experience

## **BIO 4850 - Evolution**

**Credits:** 3

**Prerequisite(s):** BIO 3600 or BIO 3610, or permission of instructor, satisfaction of all General Studies course requirements, senior standing

**Description:** This course will develop an awareness and understanding of organismic evolution as the foundation of biological thought. The major features of evolution-variation, natural selection, adaptation and specialization-and their significance to the origin and evolution of major plant and animal groups are investigated. A research paper and an oral presentation will be required.

**University Requirement(s):** Senior Experience

## **BIO 4950 - Undergraduate Research in Biology**

**Credits:** 1-2

**Prerequisite(s):** BIO 3600 or 3610 and permission of instructor

**Description:** Students will engage in a research project that involves the application of scientific methodology to biological problems. Experience will be gained in literature searches, generating hypotheses, data collection, data handling, data analyses, and presentation of results. Course may be repeated. A maximum of 4 credits of independent study/internships/practicum/undergraduate research may be applied toward a major or minor in Biology.

## **Business**

### **BNK 1985 - Introduction to Business Careers Internship**

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.

*Note: Internship must be approved by the department using the C2 Hub process*

**Cross Listed Course(s):** ACC 1985, CIS 1985, ECO 1985, FIN 1985, MGT 1985, MKT 1985

### **BUS 1500 - Introduction to Career Management**

**Credits:** 1

**Description:** The purpose of this course is to help students explore business career opportunities, match job requirements to personal

skills and abilities, develop a plan for professional growth, and introduce students to the job search process. Students will gain an understanding of the value and the process of building a professional network.

### **BUS 1850 - Introduction to Business**

**Credits:** 3

**Description:** This course presents an introduction to business concepts that are further developed in the business core and in other courses pursued by business and economics majors. Also discussed are contemporary issues facing business. This course allows business students to develop a context for their studies and gives non-business students insights into the world of business.

### **BUS 1980 - Freshman Internship in Business**

**Credits:** 1-6

**Description:** Internships provide practical, hands-on experience in a professional field related to business. Students will gain substantial work experience in a professional business environment where they will examine the role and importance of the different business disciplines in a real-world environment.

### **BUS 2250 - Personal Money Management**

**Credits:** 3

**Prerequisite(s):** Sophomore standing

**Description:** This survey course is oriented to the identification and solution of personal financial problems. The subject matter ranges from the determination of one's financial condition to estate planning, including controlling credit usage, making major purchase decisions, buying insurance, making investments, and planning retirement.

### **BUS 3010 - Global Business Experience**

**Credits:** 3

**Prerequisite(s):** ENG 1020, sophomore standing or higher and instructor approval

**Description:** This travel-based course focuses on the challenges and opportunities associated with entrepreneurship and various business strategies in the international business environment, including geography, culture, and economy of the country. Students first research an overview of the process and effects of internationalization in the current business environment, then travel to the country to meet with government and non-government agencies, local businesses, and international businesses, as well as experience aspects of local culture. Students integrate knowledge to identify the conceptual framework of global business issues and apply knowledge to business situations in a foreign country.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **BUS 3040 - Global Corporate Social Responsibility and Sustainability**

**Credits:** 3

**Prerequisite(s):** At least 60 semester hours earned

**Description:** This course offers a global perspective of responsibility

for conducting sustainable business. The over-arching theme is the integration of planet, people, and profits. Values and cultural differences among corporate entities, countries, and societies are explored within the context of stakeholder analyses. Leadership characteristics within successful companies are examined. Examples and case analyses provide means to explore social, cultural, and human aspects of doing business worldwide.

### **BUS 4500 - Career Planning**

**Credits:** 1

**Prerequisite(s):** Junior or senior standing

**Description:** This course provides the opportunity for students to analyze and evaluate the information needed, processes involved, and the skills required for career planning. Processes of industry research, self-assessment, occupational exploration, and preparation for employment are critiqued, designed, and implemented. In addition to traditional classroom activities, content is presented in an experiential manner through observation, role-play, simulations, individual projects, and contact with resource experts.

### **FIN 1985 - Introduction to Business Careers Internship**

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.

*Note: Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** ACC 1985, BNK 1985, CIS 1985, ECO 1985, MGT 1985, and MKT 1985

## **Career and Personal Development**

### **CPD 1300 - Transformations: Student Success**

**Credits:** 3

**Description:** This course focuses on the tangible student skills and strategies that lead to self-efficacy and self-advocacy, the development of student-focused habits of mind and a growth mindset, and the achievement of college completion goals. The course helps students learn to navigate societal systems including higher education. Course topics and a required on-campus service learning placement will help students to identify the means and ways of integration into the campus community that promote a sense of belonging and facilitate exploration of major courses of study and career paths.

*Note: Some sections of this course may be taught as Service Learning.*

### **CPD 1901 - Interdisciplinarity and the Individualized Degree**

**Credits:** 1

**Prerequisite(s):** IDP Undeclared Major or Minor or by permission of department. Sophomore standing or higher.

**Description:** This course serves as a gateway to the Individualized Degree Program (IDP) major or minor. Its purpose is to introduce

students to the concepts of interdisciplinarity and multidisciplinary studies so they can develop the skills necessary to create a successful IDP proposal. Students will complete assignments that will guide them through the process of planning their educational, personal, and career goals, identifying coursework needed to achieve these goals, and synthesizing and reflecting upon their learning.

### **CPD 2300 - Time Management**

**Credits:** 1

**Description:** Learning to manage time efficiently is a necessary skill for successful students, educators, and professionals. This course is designed to enable women and men to analyze their use of time, identify factors that contribute to wasting time, and improve use of time through better prioritizing, scheduling, and increased motivation.

### **CPD 2310 - Stress Management**

**Credits:** 1

**Description:** In every individual's life there are numerous sources of stress. Instead of simply treating the symptoms of stress, this course will help students identify their own causes of stress and then deal with those causes prescriptively. Discussions will focus on understanding stress theory, personality attributes that contribute to stress, stress in the work environment, and relationship stress.

### **CPD 2320 - Self Esteem**

**Credits:** 1

**Description:** This course will explore the issues of self-esteem within a feminist framework, including the effects of sexism on self-worth, the role of women in a sexist society, and the tools needed to survive with a strong self-image. The goal is to apply what is learned to enhancing everyday living through an understanding of societal, familial, and self-induced pressures.

### **CPD 2330 - Assertiveness**

**Credits:** 1

**Description:** This course explores assertive behavior from a feminist point of view. The differences between passive, assertive, and aggressive behaviors are discussed. Avenues for change and tools to achieve change are identified.

### **CPD 2340 - Sexual Harassment/Discrimination**

**Credits:** 1

**Description:** This interactive workshop will help students to become aware of sexual harassment and learn how to stop and prevent it.

### **CPD 2350 - Career Evaluation Workshop**

**Credits:** 1

**Description:** This course will focus on career evaluation and will assist students in acquiring the skills and attitudes to plan effectively

for and manage the changes which they will experience during their work lives.

#### **CPD 2360 - Multilevel Wellness**

**Credits:** 1

**Description:** This course will empower students with tools to attain their own personal sense of well-being. It will address wellness as a multilevel process consisting of emotional, cognitive, somatic, and spiritual components. The workshop will include information, experiential exercises, and process work. Group work and journal keeping will also be used to bridge the communication gap between the self and others.

#### **CPD 2370 - Money Issues for Women**

**Credits:** 1

**Description:** The economic and social circumstances of women's lives in the United States often place them in a different material and psychological relationship to money and issues surrounding money than men. This course will review a variety of issues women face when planning for the future, as well as some of the tools used to build a secure future.

*Note: Credit will be granted under one prefix only: CPD or FIN.*

**Cross Listed Course(s):** FIN 2370

#### **CPD 2380 - Finding an Internship**

**Credits:** 1

**Description:** This is an internship preparation course for students from any department without a pre-internship class in their curriculum. Students will develop a plan for finding an internship site and learn the skills needed to successfully obtain the internship. They will research potential employers, write a resume and cover letter, and develop interviewing skills. Students will also reflect on the process of finding an internship in their field and develop goals and learning objectives for their placement.

#### **CPD 3300 - Women's Leadership**

**Credits:** 2

**Description:** This course will examine the various roles, models, and guiding principles of women in leadership. The discussions will be intentionally interactive as students share their own experience of women's leadership ranging from traditional to unconventional. Students will identify the values most clearly associated with women's leadership crossculturally and read diverse women's experiences in their communities. Each student will interview a woman whom they deem to be in a leadership role, though not necessarily a formal position, and will present his or her findings to the class. All class members will reflect on their own leadership values in relation to the course material.

*Note: Credit will be granted under one prefix only: CPD or GWS.*

**Cross Listed Course(s):** GWS 3300

#### **CPD 3320 - Women's Self-Defense**

**Credits:** 1

**Description:** This course will begin by examining the psychological tools needed to defend oneself and will gradually move into the actual, physical skills necessary to survive, escape, avoid and/or resist violence. The Women's Empowerment Model will be presented. This model emphasizes self-respect, an understanding of one's inalienable human rights, and the determination and ability to protect those rights. Students will learn self-defense against verbal and physical assaults by becoming more aware, assertive and skilled in physical resistance techniques. Using interactive exercises, students will practice both verbal and physical self-defense skills. All ability levels are welcome, but the class is extremely physical; thus, students should come prepared to move.

*Note: Credit will be granted under one prefix only: CPD or HPL.*

**Cross Listed Course(s):** HPL 3320

#### **CPD 4100 - Promoting Your Individualized Degree**

**Credits:** 1

**Description:** This course provides the opportunity for Individualized Degree Program (IDP) students to synthesize the interdisciplinary learning they have done for their major/minor. Participants will analyze the transformative outcomes of their IDP experiences to prepare for post-graduate possibilities such as interviews, internships, graduate school applications, etc. In addition to a preliminary face-to-face meeting and a final culminating presentation session, students will participate online by responding to readings, discussion posts, and orchestrating an informational interview.

## **Chemistry**

### **CHE 1010 - Chemistry and Society**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics placement tests

**Description:** This course is intended for nonscience students who need to satisfy the General Studies Science requirement. It introduces basic concepts of chemistry in modern society. The emphasis of the course is to permit students to obtain a qualitative understanding of chemical principles and their application to environmental issues.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **CHE 1100 - Principles of Chemistry**

**Credits:** 4

**Prerequisite(s) or Corequisite(s):** MTH 1109 or MTH 1110 or MTH 1111 or MTH 1112 or a College Level Math (CLM) score of greater than or equal to 65 on the Accuplacer Exam or an Advanced Algebra and Functions (AAF) score of greater than or equal to 280 on the Accuplacer Exam

**Description:** This course is a study of the fundamentals of chemistry. A survey of atomic structure, periodicity, bonding, nomenclature, stoichiometry, gas laws, and solution chemistry is provided for those students with no background in these areas.

*Note: Completion of both CHE 1100 and CHE 1150 with passing grades is required to receive guaranteed transfer GT-SC1.*

**General Studies:** Natural and Physical Sciences  
**Guaranteed Transfer:** GT-SC1

### CHE 1150 - Principles of Chemistry Laboratory

**Credits:** 1

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests.

**Corequisite(s):** CHE 1100

**Description:** This course is an introduction to the academic chemistry laboratory and is intended for students with no prior experience. The course will cover health and safety issues, preparation and use of common glassware/lab equipment, proper recording of qualitative and quantitative observations, and common lab techniques.

*Note: Completion of both CHE 1100 and CHE 1150 with passing grades is required to receive guaranteed transfer GT-SC1.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### CHE 1800 - General Chemistry I

**Credits:** 4

**Prerequisite(s):** MTH 1109 or MTH 1110 or MTH 1111 or MTH 1112 or a College Level Math (CLM) score of greater than or equal to 65 on the Accuplacer Exam or an Advanced Algebra and Functions (AAF) score of greater than or equal to 280 on the Accuplacer Exam

**Description:** A comprehensive study of the facts, concepts, and laws of chemistry. This course meets the requirements of students majoring in chemistry, medicine, medical technology, biology, physics and other fields requiring a strong background in chemistry. Students enrolling in this course should have successfully completed high school chemistry or equivalent coursework.

*Note: Completion of both CHE 1800 and CHE 1801 with passing grades is required to receive guaranteed transfer GT-SC1.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### CHE 1801 - General Chemistry I Laboratory

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** CHE 1800. If used as a Prerequisite, CHE 1800 must be completed with minimum grade of C- or better.

**Description:** This course introduces basic laboratory techniques and reinforces and explores the concepts introduced in CHE 1800 - General Chemistry I. Chemical literacy, including report writing, is introduced. Emphasis is placed on learning methods and technologies appropriate to a chemical or physical determination, learning graphical, statistical, and symbolic methods to organize and interpret data, and understanding the role of repeatability in the acquisition of scientific data.

*Note: Completion of both CHE 1800 and CHE 1801 is required to receive guaranteed transfer GT-SC1.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### CHE 1810 - General Chemistry II

**Credits:** 4

**Prerequisite(s):** CHE 1800 and one of the following: MTH 1109, MTH 1110, MTH 1111, MTH 1112, MTH 1120, MTH 1400, MTH 1410, MTH 2410, or MTH 2420

**Description:** This course is a continuation of CHE 1800 - General Chemistry I and provides a comprehensive study of the facts, concepts, and laws of chemistry. The course meets the requirements of students majoring in such areas as chemistry, medicine, medical technology, biology, physics and other fields requiring a strong background in chemistry.

*Note: Completion of both CHE 1810 and CHE 1811 with passing grades is required to receive guaranteed transfer GT-SC1.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### CHE 1811 - General Chemistry II Laboratory

**Credits:** 1

**Prerequisite(s):** CHE 1801 with a minimum grade of C- or above

**Prerequisite(s) or Corequisite(s):** CHE 1810 with a minimum grade of C- or above

**Description:** This course is the second semester of a one-year sequence in laboratory work that reinforces and explores the concepts introduced in CHE 1810 - General Chemistry II. Chemical literacy, including report writing, is continued. Emphasis is placed on identifying relevant variables in experimental design and testing hypotheses. This course also reinforces learning methods and technologies appropriate to a chemical or physical determination, learning graphical and statistical methods to interpret data, and understanding the role of repeatability in the acquisition of scientific data.

*Note: Completion of both CHE 1810 and CHE 1811 is required to receive guaranteed transfer GT-SC1*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### CHE 2100 - Introduction to Organic and Biological Chemistry

**Credits:** 4

**Prerequisite(s):** CHE 1100 or CHE 1810

**Description:** This course is a lecture-based study of the elements of organic and biological chemistry. This course, in conjunction with CHE 2150, satisfies the requirements for nursing programs and other fields requiring a survey of organic and biological chemistry.

### CHE 2150 - Introduction to Organic and Biological Chemistry Laboratory

**Credits:** 1

**Prerequisite(s):** CHE 1150 or CHE 1811

**Prerequisite(s) or Corequisite(s):** CHE 2100

**Description:** This course is a laboratory-based study of the elements of organic and biological chemistry. This course, in conjunction with CHE 2100, satisfies the requirements for nursing programs and other fields requiring a survey of organic and biological chemistry.

### **CHE 2710 - Introduction to Criminalistics**

**Credits:** 3

**Prerequisite(s):** CHE 1100 or CHE 1800

**Corequisite(s):** CHE 2711

**Description:** This course introduces the student to the application of science at crime scenes and the crime laboratory. It provides a survey of forensic science including pathology, entomology, anthropology, microevidence, drug analysis, toxicology, dactyloscopy, firearm examination, serology, hair and fiber analysis, soil and glass analysis, and crime scene processing.

### **CHE 2711 - Introduction to Criminalistics Laboratory**

**Credits:** 1

**Prerequisite(s):** CHE 1150 or CHE 1801

**Corequisite(s):** CHE 2710

**Description:** This course introduces the student to laboratory methods involved with presumptive tests for biological fluids, firearms examination, document examination, pattern analysis, and fingerprint examination.

### **CHE 2750 - Arson and Explosives**

**Credits:** 3

**Prerequisite(s):** CHE 1100

**Description:** This course will include a study of the chemistry of fires and explosions. Arson scene evidence collection and preservation techniques will be discussed, as well as techniques for analyzing the residues collected.

### **CHE 2760 - Field Testing and Laboratory Analysis of Drugs**

**Credits:** 1

**Prerequisite(s):** CHE 1100

**Description:** The course introduces the theory and practice of using a drug-testing kit to screen for the presence or absence of controlled substances.

### **CHE 3000 - Analytical Chemistry**

**Credits:** 3

**Prerequisite(s):** Completion of CHE 1810 with a minimum grade of "C-" or better, and completion of CHE 1811 with a minimum grade of "C-" or better.

**Corequisite(s):** CHE 3010

**Description:** Students in the course study the fundamentals of analytical chemistry including principles of gravimetric, volumetric, potentiometric, and spectrophotometric analysis. Statistical literacy as it applies to analytical chemistry is introduced.

### **CHE 3010 - Analytical Chemistry Laboratory**

**Credits:** 2

**Prerequisite(s):** Completion of CHE 1810 with a grade of C- or better, completion of CHE 1811 with a C- or better, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Prerequisite(s) or Corequisite(s):** CHE 3000

**Description:** This course studies the fundamentals of analytical chemistry including principles of gravimetric, volumetric, potentiometric, and spectrophotometric analysis. Chemical literacy as it applies to analytical chemistry will be introduced.

### **CHE 3050 - Environmental Chemistry**

**Credits:** 3

**Prerequisite(s):** CHE 1810, CHE 1811, CHE 3100

**Description:** This course is a study of the sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and biota environments.

### **CHE 3090 - Survey of Organic Chemistry**

**Credits:** 4

**Prerequisite(s):** CHE 1810, CHE 1811; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Corequisite(s):** CHE 3120

**Description:** Survey of Organic Chemistry (CHE 3090) focuses on those areas of organic chemistry that are most pertinent to the study of Biochemistry (CHE 4310). The course covers acid-base chemistry, stereochemistry, the chemistry of alcohols, aldehydes, ketones, carboxylic acids and their derivatives, and the chemistry of major metabolic pathways.

### **CHE 3100 - Organic Chemistry I**

**Credits:** 4

**Prerequisite(s):** CHE 1800, CHE 1810, and CHE 1811

**Description:** This is the first of a two-semester sequence covering organic chemistry. Topic coverage emphasizes basic organic systems ranging from saturated organic compounds (alkanes) to unsaturated compounds (alkenes, alkynes, aromatics), halogenated organic compounds, and basic organometallic systems. The class also covers basic reaction mechanisms and the fundamental electronic principles governing such transformations, as well as the synthesis of organic systems using the retrosynthetic method.

### **CHE 3110 - Organic Chemistry II**

**Credits:** 3

**Prerequisite(s):** CHE 3100

**Description:** This is the second of a two-semester series covering organic chemistry. Topic coverage emphasizes basic heteronuclear systems, both saturated and unsaturated, and extends concepts learned in CHE 3100 to significantly more complex electronic systems. The class continues the trend of functional group analysis from an electronic basis and an analysis of mechanisms and stereoelectronics as applied to the syntheses of organic systems.

### **CHE 3120 - Organic Chemistry Laboratory I**

**Credits:** 1

**Prerequisite(s):** CHE 1810, CHE 1811, and completion of General Studies requirements in Written Communication, Oral

Communication, and Quantitative Literacy.

**Prerequisite(s) or Corequisite(s):** CHE 3100 or CHE 3090

**Description:** The focus of this course is an introduction to basic laboratory techniques of preparation, purification, and identification of organic compounds.

### CHE 3130 - Organic Chemistry Laboratory II

**Credits:** 2

**Prerequisite(s):** CHE 3100 and CHE 3120

**Prerequisite(s) or Corequisite(s):** Pre/Corequisite: CHE 3110

**Description:** This course is a continuation of CHE 3120. It is a qualitative organic analysis course in which both classical and instrumental techniques are utilized to elucidate organic structure. Chemical literacy will be enhanced through the use of web based chemical literature search and American Chemical Society based report writing.

### CHE 3140 - Spectrometric Identification of Organic Compounds

**Credits:** 3

**Prerequisite(s):** CHE 3100 with a C- or better.

**Description:** The course expands on modern applications of Nuclear Magnetic Resonance (NMR) and Fourier Transform Infrared (FTIR) spectroscopic probes for the identification of organic molecules. The course enhances connections to all subdisciplines of the undergraduate chemistry curriculum, but mainly focuses on organic chemistry. The course embeds activities for mastering soft skills that are needed for the practicing professional chemist. The latter include literature background searches, oral, written, and poster style presentations of data.

### CHE 3190 - Survey of Physical Chemistry

**Credits:** 4

**Prerequisite(s):** Completion of CHE 3000 with a grade of C- or better, MTH 1410 with a grade of C- or better, and PHY 2010 or PHY 2311 with a grade of C- or better.

**Description:** This course provides a one-semester survey of the principles of thermodynamics, equilibrium, kinetics, quantum mechanics, and spectroscopy.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** HON 3190

### CHE 3200 - Survey of Physical Chemistry Laboratory

**Credits:** 1

**Prerequisite(s):** Completion of CHE 3000 with a grade of C- or better, MTH 1410 with a grade of C- or better, and PHY 2010 or PHY 2311 with a grade of C- or better.

**Prerequisite(s) or Corequisite(s):** CHE 3190

**Description:** This course provides a one-semester laboratory survey of the principles of thermodynamics, equilibrium, kinetics, quantum mechanics, and spectroscopy. Technical writing is emphasized.

### CHE 3300 - Inorganic Chemistry

**Credits:** 3

**Prerequisite(s):** CHE 3090 or CHE 3100

**Description:** In this course, students build a comprehensive, foundational understanding of the core concept of chemistry: the relationship between the structure and function of matter. Starting with how elements are formed from fundamental forces and particles after the big bang, the governing principles of nuclear structure are covered, related to nuclear function, then expanded to demonstrate how nuclear structure imparts atomic structure. Atomic theory is explored in-depth to reveal how the organization of the periodic table mirrors the intricacies of atomic structure via functional periodic trends such as redox behavior and acid-base properties. The atomic structure and periodic properties of the elements are then used to rationalize covalent and ionic bond formation via hard-soft acid-base theory and molecular orbital theory, paving the way for discussion of the basic concepts of coordination chemistry. Molecular and ionic structure is then discussed in the context of bulk material function such as the formation, energetics, and properties of crystal lattices, band theory, and the derivation of solubility rules for broader context of materials in aqueous environments. Finally, this course emphasizes the development of high-level scientific analysis skills through a methodical approach to reading and interpreting primary scientific literature.

### CHE 3600 - Crime Scene Investigation I

**Credits:** 4

**Prerequisite(s):** CHE 2710 and CHE 2711

**Description:** The course is designed for field investigators seeking a minor in criminalistics. Course material presented includes identification; individualization; collection and preservation of physical evidence; approach, processing, and investigation of crime scenes; establishing identity; trace evidence; impressions evidence; blood; and other biological evidence.

### CHE 3610 - Crime Scene Investigation II

**Credits:** 4

**Prerequisite(s):** CHE 3600

**Description:** This course is a continuation of CHE 3600 for field investigators seeking a minor in criminalistics. Course materials include specialized instruction in the following topics: drugs and toxicology, arson and explosives, sexual assault investigation, burglary investigation, motor vehicle investigation, and homicide investigation.

### CHE 3700 - Forensic Chemistry

**Credits:** 4

**Prerequisite(s):** CHE 3000, CHE 3010, CHE 3100 or CHE 3090

**Description:** This course introduces the theory and practice of forensic science with an emphasis on the chemical analysis and interpretation of physical evidence. Topics covered in lecture and/or laboratory include ethics, statistics, quality assurance, drug analysis, toxicology, and arson/explosives analysis.

### CHE 3710 - Forensic Biochemistry

**Credits:** 4

**Prerequisite(s):** CHE 2100 or CHE 3090 or CHE 3100 with a grade of C- or better

**Description:** This course is an introduction to forensic biology/biochemistry including identification of body fluids with an in-depth focus on the techniques and instrumentation used to extract, quantify and analyze DNA for forensics. The development of written and oral communication skills is emphasized.

#### **CHE 3810 - Chemistry Literature and Research**

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** CHE 3000, or permission of instructor.

**Description:** This course presents primary research literature and resources for critical consideration in the fields of chemistry and biochemistry. Students in this course focus on analysis of scientific literature and scientific seminars, particularly the evaluation of chemical analysis techniques and comparison of data presentation methods.

#### **CHE 3890 - Science and Public Policy: Variable Topics**

**Credits:** 1-3

**Prerequisite(s):** Any lower-division science course and ENG 1009 or ENG 1010, or Permission of instructor

**Description:** This course provides a working familiarity with the technical issues that influence major public policy decisions. Policy issues and relevant technologies and their interactions are discussed. Course content varies according to current topics, such as health, environment, and energy.

*Note: This course may be repeated under different topics.*

#### **CHE 3980 - Internship in Chemistry**

**Credits:** 1-15

**Prerequisite(s):** Major in chemistry; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable Credit*

#### **CHE 4010 - Advanced Organic Chemistry**

**Credits:** 3

**Prerequisite(s):** CHE 3110 and CHE 4450

**Description:** This course provides an integrated study of techniques used for the investigation of organic reaction mechanisms and a survey of the nature of important organic reaction intermediates.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** HON 4010

#### **CHE 4020 - Synthetic Organic Chemistry**

**Credits:** 3

**Prerequisite(s):** CHE 3110, CHE 3130

**Description:** This course covers a unified approach to classical and modern synthetic chemistry, including aspects of mechanism and stereochemistry.

#### **CHE 4100 - Instrumental Analysis**

**Credits:** 3

**Prerequisite(s):** CHE 3000; CHE 3090 or CHE 3110

**Description:** This course presents the theory and practice of instrumental methods of analysis. Topics include sample preparation, instrument electronics, absorption and emission spectroscopy, mass spectrometry, electro-analytical methods, and chromatographic methods.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** HON 4100

#### **CHE 4110 - Instrumental Analysis Laboratory**

**Credits:** 2

**Prerequisite(s):** CHE 3010; CHE 3130 or CHE 4350

**Corequisite(s):** CHE 4100

**Description:** This course provides a laboratory study of instruments used for identification and separation of chemicals. An emphasis is placed on understanding the physical components of each instrument and using software to develop and optimize methods. Topics include electromagnetic radiation, mass spectrometry, chromatography, calorimetry, and electrochemistry. Chemical literacy and report writing are emphasized.

#### **CHE 4130 - Quality in the Chemical Industry**

**Credits:** 3

**Prerequisite(s):** CHE 4100, CHE 4110

**Description:** As the capstone for the Quality in the Chemical Industry Certificate, this course prepares students for jobs in the chemical industry. Topics include quality assurance, statistical evaluation of data, method validation, and reporting.

#### **CHE 4160 - QA/QC Methods Laboratory**

**Credits:** 1

**Prerequisite(s):** CHE 4100, CHE 4110

**Description:** As a capstone laboratory experience for the Quality in the Chemical Industry Certificate, this course prepares students for jobs in the chemical industry. Topics include instrumentation operation, quality assurance, statistical evaluation of data, method validation, and reporting.

#### **CHE 4300 - Advanced Inorganic Chemistry**

**Credits:** 4

**Prerequisite(s):** CHE 3190 or CHE 4450, CHE 3300, and completion of General Studies Requirements

**Description:** This course is a capstone experience for students and provides an advanced study of topics relevant to the field of inorganic and organometallic chemistry, including atomic and molecular structure, bonding, molecular orbital theory, symmetry, and organometallic and inorganic reaction mechanisms.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HON 4300

### CHE 4310 - Biochemistry I

**Credits:** 4

**Prerequisite(s):** CHE 3110 or CHE 3090

**Description:** This course is an introduction to the chemistry of living systems with emphasis placed on proteins, carbohydrates, lipids, metabolism, and bioenergetics.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** HON 4310

### CHE 4320 - Biochemistry II

**Credits:** 4

**Prerequisite(s):** CHE 4310

**Description:** This course is a continuation of Biochemistry I. Students will engage in an in-depth study of the metabolism and function of lipids, amino acids, and nucleic acids.

### CHE 4350 - Biochemistry Laboratory

**Credits:** 2

**Prerequisite(s):** CHE 3120

**Prerequisite(s) or Corequisite(s):** CHE 4310

**Description:** This course introduces the basic techniques and instrumentation of biochemical research. Students use knowledge of these techniques to design and carry out a project of their choosing and write about their results in a laboratory report, formatted in the style of an academic biochemistry journal.

### CHE 4370 - Undergraduate Research in Chemistry

**Credits:** 1-2

**Prerequisite(s):** CHE 1810 and permission of instructor

**Description:** Students will engage in a research project that involves the application of scientific methodology to chemical problems. Experience will be gained in literature searches, generating hypotheses, data collection, data handling, data analysis, safety and chemical hygiene, and presentation of results.

*Note: This course may be repeated. A maximum of 6 credits may be applied toward a major or minor in Chemistry or Biochemistry. Students interested in taking this course must consult with the Chemistry Department.*

### CHE 4390 - Advanced Biochemistry Laboratory

**Credits:** 3

**Prerequisite(s):** CHE 4350 and Senior Standing

**Prerequisite(s) or Corequisite(s):** CHE 4320

**Description:** This course is a capstone experience for students seeking a major in biochemistry. In the course, students utilize techniques and instrumentation of biochemical research. Students use knowledge of these techniques to design and carry out a project that addresses a biochemical question or hypothesis that they propose. Students write about their results in a short article report, formatted in the style of an academic biochemistry journal, and present their work to the Chemistry and Biochemistry Department.

**University Requirement(s):** Senior Experience

### CHE 4450 - Physical Chemistry: Quantum Mechanics and Spectroscopy

**Credits:** 4

**Prerequisite(s):** CHE 3000, MTH 2420; PHY 2020 or PHY 2331

**Corequisite(s):** CHE 4480

**Description:** This course is the first of a two-semester sequence covering topics in physical chemistry. Topic coverage emphasizes the study of quantum mechanics and its application to atomic and molecular structure, chemical bonding, and spectroscopy. Additionally, the principles of statistical mechanics and their application to chemical systems are covered.

### CHE 4460 - Physical Chemistry: Thermodynamics and Kinetics

**Credits:** 4

**Prerequisite(s):** CHE 4450

**Corequisite(s):** CHE 4490

**Description:** This course is the second of a two-semester sequence covering topics in physical chemistry. Topic coverage emphasizes the study of gas dynamics, the laws of thermodynamics, chemical equilibrium, and the rates and mechanisms of chemical reactions.

### CHE 4480 - Physical Chemistry Laboratory: Quantum and Spectroscopy

**Credits:** 2

**Prerequisite(s):** CHE 3010, MTH 2420; PHY 2020 or PHY 2331

**Corequisite(s):** CHE 4450

**Description:** This course is the first of a two-semester laboratory sequence covering topics in physical chemistry. Topic coverage emphasizes techniques and methods used in quantum mechanics and spectroscopy. Technical writing is emphasized.

### CHE 4490 - Physical Chemistry Laboratory: Thermodynamics and Kinetics

**Credits:** 2

**Prerequisite(s):** CHE 4480

**Corequisite(s):** CHE 4460

**Description:** This course is the second of a two-semester laboratory sequence covering topics in physical chemistry. Topic coverage emphasizes techniques and methods used in the study of gas dynamics, the laws of thermodynamics, chemical equilibrium, and

the rates and mechanisms of chemical reactions. Technical writing is emphasized.

#### **CHE 4650 - Chemistry Work Experience/Cooperative Education**

**Credits:** 4

**Prerequisite(s):** CHE 3010, CHE 3110

**Description:** This course is a laboratory field experience for students majoring or minoring in chemistry. A total of 600 hours of work experience will be required.

#### **CHE 4700 - Criminalistics Internship I**

**Credits:** 5

**Prerequisite(s):** CHE 3710

**Description:** This course is a laboratory internship experience for criminalistics majors.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

#### **CHE 4710 - Criminalistics Internship II**

**Credits:** 3

**Prerequisite(s):** CHE 3710

**Description:** This course is a laboratory internship experience for chemistry majors with a concentration in criminalistics.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

**University Requirement(s):** Senior Experience

#### **CHE 4800 - Special Topics in Chemistry**

**Credits:** 4

**Description:** This Special Topics course in chemistry provides an in-depth examination of particular aspects of chemical phenomena. Topics ranging from analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, to physical chemistry, and connections to biology, mathematics, and physics, will be the focus of each course.

*Note: This course may be repeated under different topics.*

#### **CHE 4950 - Senior Experience in Chemistry**

**Credits:** 3

**Prerequisite(s):** Senior standing, CHE 3000, CHE 3110, either CHE 3190 or CHE 4450, and completion of General Studies requirements

**Description:** This is a capstone experience for students seeking a major in chemistry. The course consists of library research in conjunction with a chemistry faculty member, concluding with the submission of a significant paper on some area of chemistry and a

presentation of the paper to the Chemistry Department.

*Note: CHE 4950 can be used as a substitution for CHE 4960*

**University Requirement(s):** Senior Experience

#### **CHE 4960 - Senior Experience in Biochemistry**

**Credits:** 3

**Prerequisite(s):** Senior Standing; CHE 3110; CHE 4310

**Description:** This course is a capstone experience for students seeking a major in biochemistry. The course consists of library research in conjunction with a chemistry faculty member; the submission of a significant paper on some area of biochemistry; presenting the paper to the Chemistry Department; and completing the Diagnostic Undergraduate Chemistry Knowledge American Chemical Society examination.

*Note: CHE 4960 can be used as a substitution for CHE 4950*

**University Requirement(s):** Senior Experience

### **Chicana and Chicano Studies**

#### **CHS 1000 - Introduction to Chicana/o Studies**

**Credits:** 3

**Description:** This course introduces students to the broad range of the interdisciplinary field of Chicana/o Studies. The course covers the major historical moments beginning with an overview of Pre-Columbian civilizations in the Americas and Medieval Spain, which have led to the contemporary social location of Mexican-origin population within the United States. In addition, the course introduces students to the broad scope of Chicana/o cultural production in the creative arts such as visual, film, music and literature. Resources draw from various disciplines, including but not limited to: sociology, history, political science, anthropology, education, art and art history, women and gender studies, and religious studies.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 1003

#### **CHS 1030 - Introduction to Social Justice and Decoloniality**

**Credits:** 3

**Description:** This course introduces students to the interdisciplinary fields of Social Justice and Decolonial Studies through interdisciplinary perspectives, methods, and approaches. Students learn about privilege, power, and oppression and their relationships to race, class, gender, sexuality, and other identities. This course asks complex and difficult questions regarding colonialism, decoloniality, sovereignty, and agency. It offers students opportunities to study social movements, and engage in social justice and decolonial praxis.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** AAS 1020, GWS 1020, NAS 1020

#### **CHS 2000 - Living Culture and Language of the Mexican and Chicano**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or CHS 1020

**Description:** This course traces the fusion of cultures and dialects of the Spanish-speaking Southwest into elements that characterize Chicano intracultural and intercultural diversity.

*Note: Credit will be granted for only one prefix: CHS or ANT.*

**Cross Listed Course(s):** ANT 2360

### CHS 2010 - Survey of Chicana/o Literature

**Credits:** 3

**Prerequisite(s):** CHS 1000 and ENG 1020, or permission of instructor

**Description:** This course reviews major literary genres associated with Chicana/o and Latina/o creative expression from the 1800s to the present, including poetry, drama, and the novel.

*Note: Credit will be granted for only one prefix: CHS or ENG.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ENG 2410

### CHS 2020 - Chicano Poetry and Drama

**Credits:** 3

**Prerequisite(s):** CHS 2010 or Permission of instructor

**Description:** This course is an intensive study of Chicano poetic and dramatic arts as they attempt to create a new reality. The course will also equip the student with a basic approach to poetry and drama as a craft through production.

### CHS 2030 - Interdisciplinary Research Methods in Social Issues

**Credits:** 3

**Prerequisite(s):** GWS 1001 or AAS 1010 or CHS 1000 or

Permission of Instructor

**Description:** This course focuses on the interdisciplinary study of methods, analyses and critiques used by scholars to study social issues within and across a range of disciplines (e.g., history, arts, humanities, sciences, education, health, economics, law and social/behavioral sciences). Research designs and general statistical interpretation will be reviewed for each methodology. Techniques for laboratory and field research, conducting qualitative and quantitative studies, and writing research reports will also be included.

*Note: Credit will be granted for only one prefix: GWS or AAS or CHS.*

**Cross Listed Course(s):** AAS 2010, GWS 2010

### CHS 2100 - Women of Color

**Credits:** 3

**Description:** Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of women's race, class, ethnicity, and sexual orientation are central to this course. The similarities among diverse groups of women are also examined in order to better understand the complexity of women's lives. The course addresses issues of work, health, interpersonal violence, globalization, as well as resistance, activism, and social change

across identities.

*Note: Credit will be granted for only one prefix: AAS, CHS, or GWS.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 2100, GWS 2100

### CHS 2110 - The Chicano in Aztlan

**Credits:** 3

**Prerequisite(s):** CHS 1000 or Permission of instructor

**Description:** This course focuses on three major motifs associated with the socio-historical development of the Chicano in the Southwest: land, farm labor, and urban enclave.

### CHS 2200 - Survey of Chicano/a Cultural Studies

**Credits:** 3

**Prerequisite(s):** CHS 1000

**Description:** This course introduces students to the inter- and trans-disciplinary approaches to recognizing, analyzing, constructing and deconstructing cultural texts. The course considers different kinds of cultural texts and ways of reading them from folktales, myths, music, monuments, rituals and games, to poems, novels, and political movements.

### CHS 2500 - Borderland Studies: Variable Topics

**Credits:** 3

**Prerequisite(s):** CHS 1000

**Description:** This course examines the various expressions of borderland experiences through literature, film, religion, gender, immigration, music, and language.

*Note: This course may be repeated under different titles for up to 9 credits.*

### CHS 2600 - Chicana/o and Latina/o Religious Cultures

**Credits:** 3

**Description:** This course will engage aspects of Chicana/o and Latina/o religious experiences, practices, and expressions in the United States of America. While the course is grounded in Chicana/o religious experience, other Latina/o communities will also be discussed with emphasis on comparative aspects of the groups. Some attention will be given to historical contexts in Iberia and Latin America, as well as questions of how one studies Latina/o religions, but most of the course will examine moments in which religious expressions intersect with politics, popular culture, and daily life in the U.S.A.

*Note: Credit will be granted for only one prefix: CHS or PHI.*

**Cross Listed Course(s):** PHI 2600

### CHS 3000 - History of Meso-America: Pre-Columbian and Colonial Periods

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted

with HIS prefix, or permission of instructor

**Description:** This course examines the history of Meso-America and its relationship to the American Southwest from pre-Columbian times to 1836. Particular attention will be paid to the dynamism of indigenous peoples and the hybrid nature of the region's culture after the Spanish conquest.

*Note: Credit will be granted for only one prefix: CHS or HIS.*

**Cross Listed Course(s):** HIS 3745

### CHS 3010 - The Mexican Revolution

**Credits:** 3

**Prerequisite(s):** CHS 1000 or Permission of instructor

**Description:** This course traces the social, political, and economic forces that contributed to the Mexican Revolution (1910-1920). Furthermore, it provides a critical analysis of how leaders, women, the Mexican masses, and the U.S. influenced revolutionary events.

*Note: Credit will be granted for only one prefix: CHS or HIS.*

**Cross Listed Course(s):** HIS 3830

### CHS 3020 - Chicana/o History, 1836 to the Present

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course concentrates on the era from the Texas Revolt in 1836 through the contemporary era of the 21st Century. This historical survey provides an overview of the Mexican population born and living in the Southwestern United States. Students will study complex racial, class, gender, regional, and generational identity issues affecting the intra-ethnic relations among Chicanas/os in the multicultural U.S. Special attention will be paid to Chicanos/as in Colorado history.

*Note: Credit will be granted for only one prefix: CHS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HIS 3560

### CHS 3025 - Contemporary Chicana/o Art

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course is a survey of contemporary Chicana/o art. The historical, religious, social and political contexts of the artworks are studied. Students examine recurrent themes, icons, imagery, and forms within the historical timeline. This course may not be used as the sole art history elective for art studio majors.

*Note: Credit will be granted for only one prefix: CHS or ARTH.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ARTH 3360

### CHS 3100 - Social Justice and Activism in the Chicana/o Community

**Credits:** 3

**Prerequisite(s):** CHS 1000

**Description:** This course is designed to provide in-depth

sociological, historical and political analyses of community-based organizations, the process by which they originated, leadership styles, and information relative to their missions and functions within the Chicana/o community. Students will analyze theories regarding social change as they apply to social justice, activism and community organizing.

*Note: Credit will be granted for only one prefix: CHS, HON, or SWK.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3101, SWK 3110

### CHS 3200 - Chicanos and the Law

**Credits:** 3

**Prerequisite(s):** CHS 1000 or CJC 1010, or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course offers the student a complex understanding of the laws, the legal system, and how they relate to individual Chicanos and Chicano community rights. The dynamics of difference, cultural conflict with respect to race, and issues concerning ethnicity will be examined.

*Note: Credit will be granted for only one prefix: CHS or CJC.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CJC 3720

### CHS 3210 - The Chicano Family

**Credits:** 3

**Prerequisite(s):** CHS 1000 or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides an in-depth analysis of the Chicano family as a social institution. The course covers the social and economic history of the Chicano family in the Southwest and examines contemporary patterns of urban Chicano family life in a changing society.

**Cross Listed Course(s):** SOC 3470

### CHS 3300 - Education of Chicano Children

**Credits:** 3

**Prerequisite(s):** CHS 2000

**Description:** This course presents the Chicano perspective on current public education policy and its implementation in the schools. Examines learning and teaching differences in students and teachers.

*Note: Credit will be granted for only one prefix: CHS or EDU.*

**Cross Listed Course(s):** EDU 3120

### CHS 3400 - The Chicano Novel

**Credits:** 3

**Prerequisite(s):** CHS 2010 or Permission of instructor

**Description:** This course deals with origins, themes, and techniques that characterize the Chicano novel. It is an in-depth study of the best examples of literary production in both Spanish and English.

*Note: Credit will be granted for only one prefix: CHS or ENG.*

*Suitable for non-English majors.*

**Cross Listed Course(s):** ENG 3480

### **CHS 3401 - Art of Ancient Mesoamerica**

**Credits:** 3

**Prerequisite(s):** ARTH 1600 with C- or better or CHS 1000; or permission of department

**Description:** This course provides an overview of the arts and architecture produced by the different cultures of Mesoamerica, from the Olmec to the Aztec, as they existed before and up to the Spanish Conquest. The primary focus is on the visual elements of culture left to us, as well as any written records from both the Pre-Hispanic and Conquest periods. Through an exploration of these visual records, students examine the aesthetics and technologies of Mesoamerican cultures, as well as the cultural cosmologies and religious beliefs, political structures, and daily life which informed their production. Particular issues under discussion include cross-cultural contacts, the manipulation of power structures through imagery and architectural space, and the role of gender and social status in representation, politics, and religion.

*Note: Credit will be granted for only one prefix: ARTH or CHS.*

**Cross Listed Course(s):** ARTH 3401

### **CHS 3410 - Chicano Folklore of the Southwest**

**Credits:** 3

**Prerequisite(s):** CHS 2000 or Permission of instructor

**Description:** This course accents the study of oral and written folklore as a genre in Chicano history and culture. Its focus is upon tales, traditions, belief, and humor as a means to gain insight into what is culturally specific.

### **CHS 3460 - Chicana Feminisms**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or GWS 1001; or permission of instructor

**Description:** This course will provide students with a general background on Chicana feminist thought. Chicana feminism has carved out a discursive space for Chicanas and other women of color, a space where they can articulate their experiences at the intersection of race, class, gender, and sexuality, among other considerations. In the process, Chicana feminists have critically challenged Chicano nationalist discourse as well as European and North American feminism. The course will address the diversity in thinking and methodology that defines these discourses thus acknowledging the existence of a variety of feminisms that occur within Chicana intellectual thought. The course will also explore the diversity of realms in which this feminist thinking is applied: labor, education, cultural production (literature, art, performance, etc.), sexuality, and spirituality, among others.

*Note: Credit will be granted for only one prefix: CHS, GWS or HON.*

**Cross Listed Course(s):** GWS 3550, HON 3460

### **CHS 3481 - Latin American Modernisms**

**Credits:** 3

**Prerequisite(s):** ARTH 1700 with C- or better or CHS 1000; or permission of department

**Description:** This course is an introduction to the development of modernism and postmodernism in Latin American art from 1910 to 1980. The course examines artists of differing periods and nationalities within a unifying thematic framework. These themes include: responses to the colonial past; nationalism and public art; indigenismo; folk/ popular arts; and relations with the European avant-garde. However, historical and geographic circumstances also provide a mechanism for distinguishing between individual artists and national or regional art movements. As a result the course examines distinct but intersecting manifestations of modernism within 20<sup>th</sup> century Latin America.

*Note: Credit will be granted for only one prefix: ARTH or CHS.*

**Cross Listed Course(s):** ARTH 3481

### **CHS 3600 - Mexico and Chicana/o Politics**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or Permission of instructor

**Description:** This course reviews the main approaches which have been utilized, in the past and in the present, to comprehend Mexico and Chicana/o politics.

### **CHS 3660 - Poverty, Race and Gender**

**Credits:** 3

**Prerequisite(s):** SWK 1010 or permission of instructor

**Description:** This course introduces the student to the relationship between race, gender and poverty and examines the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors are explored in detail. The differences between prevailing stereotypes and current realities are highlighted.

*Note: Credit will be granted for only one prefix: CHS, GWS, SOC, or SWK.*

**Cross Listed Course(s):** GWS 3660, SOC 3660, SWK 3660

### **CHS 3800 - Topics in Chicano Studies**

**Credits:** 3

**Prerequisite(s):** CHS 1000, or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** Facilitates in-depth study of selected topics in Chicano studies.

### **CHS 3801 - Mexico: History, Life, and Culture**

**Credits:** 3

**Prerequisite(s):** One year of Spanish or Permission of instructor

**Description:** This course is part of a study abroad program and provides an interdisciplinary understanding of Mexican civilization. It specifically deals with a social and historical approach to Mexican society and examines the traditions and institutions that shape the Mexican way of life.

*Note: Credit will be granted for only one prefix: CHS or MDL.*

**Cross Listed Course(s):** MDL 3800

### **CHS 3880 - Exploring Folklore**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or CHS 1000; or Permission of the instructor

**Description:** This course will help the student to analyze the various elements of folklore from verbal to nonverbal classifications, survivals, revivals, and the implications for modern society. Folklore will be studied in a historical and contemporary context. The student will gain an understanding of both the universality and variability of folklore through many global examples compared and contrasted with a regional focus on the folklore of the American Southwest.

**Cross Listed Course(s):** ANT 3380

### **CHS 3980 - Internship in Chicana and Chicano Studies**

**Credits:** 1-15

**Prerequisite(s):** Major in Chicano studies; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **CHS 4010 - The Chicano Movement**

**Credits:** 3

**Prerequisite(s):** CHS 1000, CHS 3100 or Permission of instructor

**Description:** This course provides a perspective on the Chicano civil rights movement. Discusses the social conditions, civil rights issues, and directions of the movement in contemporary society.

### **CHS 4050 - Chicana/o Mental Health Perspectives**

**Credits:** 3

**Prerequisite(s):** CHS 1000, CHS 3210; or permission of the instructor

**Description:** This course examines the application of prevention, intervention, and support systems necessary to develop effective mental health practice for the Chicana/o populations. Students examine stressors such as identity and cultural conflict, enculturation, acculturation and the long term effects of oppression that cause individual and family disruption. Students also compare and contrast culturally specific strategies and theories of alternative healing practices in relationship to mainstream practice as well as participate in class field trips to agencies that provide services in the community.

### **CHS 4200 - Seminar: Carlos Castaneda**

**Credits:** 3

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** This course is a serious and detailed analysis of major literary figure Carlos Castaneda and the scope of his production.

*Note: Credit will be granted for only one prefix: CHS or ENG.*

**Cross Listed Course(s):** (ENG 4130)

### **CHS 4210 - Chicanas and the Politics of Gender**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or GWS 1001, CHS 3460

**Description:** This course is designed to further the theoretical understandings of Chicana Feminisms. The course spends a considerable amount of time dealing with the construction of gender in Chicana/o and Latina/o communities, and how the construction of gender has impacted the daily, lived experiences of not only Chicanas and Latinas, but also of gay, lesbian, transgendered, and queer identified Chicanas/os and Latinas/os. The course examines the social construction of gender within Chicana/o and Latina/o communities through cultural texts such as academic production, art, film, popular culture, and spirituality.

*Note: Credit will be granted for only one prefix: CHS or GWS.*

**Cross Listed Course(s):** GWS 4210

### **CHS 4850 - Research Experience in Chicana/o Studies**

**Credits:** 3

**Prerequisite(s):** Six hours of upper-division courses in CHS or Permission of instructor and preferably Senior standing

**Description:** This course enhances the development of research skills, theory construction, and application of theory to the discipline of Chicana/o studies. The course requires an in-depth research project and a research paper on a selected topic. It emphasizes critical understanding of the literature and the writing of a research paper. The course is designed primarily for Chicana/o studies majors and minors.

**University Requirement(s):** Senior Experience

## **Chinese**

### **CHI 1010 - Elementary Chinese I**

**Credits:** 5

**Description:** This is an introductory course in Chinese that stresses pronunciation, speaking, listening, and writing. Attention is given to the sound system of Chinese to enable students to distinguish the four tones and to develop and use functional, communicative language skills. Open to students with no previous experience in Chinese

**General Studies:** Oral Communication

### **CHI 1020 - Elementary Chinese II**

**Credits:** 5

**Prerequisite(s):** CHI 1010 or its equivalent

**Description:** This course is a continuation of CHI 1010 and focuses on skills development in listening, speaking, reading, and writing

with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Arts and Humanities, Global Diversity

## Civil Engineering Technology

### CET 1040 - Introduction to Engineering

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** This course is an introductory engineering course exposing students to a cross section of topics in contemporary civil, electrical and mechanical engineering disciplines to assist them with their education career choices. Students are taught to work in teams, introduced to the design process, utilize math and computer programs to analyze raw data and properly display their results in a presentation to their peers. The history of the engineering profession and its relation to current national, social, industrial, ethical, and international issues and problems will be discussed.

*Note: Credit will be granted for only one prefix: CET, EET, or MET.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

**Cross Listed Course(s):** EET 1040, MET 1040

### CET 1100 - Introduction to Civil Engineering Technology

**Credits:** 3

**Description:** This course is a cross section of topics in contemporary civil engineering disciplines, with emphasis on the tools of engineering problem solving. Students are taught to work in teams and introduced to the design process and to several tools necessary in a civil engineering career. In this course they develop an appreciation of professional topics to include: ethics, respecting others, and professional societies.

### CET 1215 - Engineering Graphics

**Credits:** 3

**Description:** Students will be introduced to CAD software to perform geometric constructions, multi-view projections, section views, dimensioning, and solid modeling.

### CET 2150 - Mechanics I-Statics

**Credits:** 3

**Prerequisite(s):** MTH 1410 and PHY 2311 with a grade of "C" or better

**Prerequisite(s) or Corequisite(s):** PHY 2321

**Description:** In this course, students examine principles of statics, studies of vectors, their resolution and composition, forces and moments, force systems and their resultants. It also covers force systems in equilibrium, static friction, introduces section properties, shear and moment diagrams.

### CET 3000 - Environmental Engineering Fundamentals

**Credits:** 3

**Prerequisite(s):** CHE 1810, CHE 1811, MTH 2410, ENV 1200

**Description:** In this course, students are exposed to the interplay between humans, our activities, and the environment around us. Over the course of the semester, they will explore anthropogenic and natural effects on air and water quality, how these systems operate and the application of applied sciences (e.g., physics, chemistry, and biology) to the natural world.

*Note: Credit will be granted for only one prefix: CET or ENV.*

**Cross Listed Course(s):** ENV 3000

### CET 3100 - Construction Methods

**Credits:** 3

**Prerequisite(s):** At least junior standing; or permission of instructor

**Description:** This course provide a basic understanding of the method used by a general contractor to determine earthwork costs . The student is introduced to the application of engineering fundamentals for the analysis of heavy earthmoving equipment as well as to the basic concepts of CPM.

### CET 3110 - Construction Estimating

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** CET 3100 or permission of instructor

**Description:** This course is a prerequisites or corequisite of CET 3100, Construction Methods. It provides a basic understanding of the methods used to prepare a building and/or bridge construction cost estimate. The students use plans and specifications to do quantity takeoffs.

### CET 3120 - Engineering Economy

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** This course covers the application of economic principles to both engineering and personal economic decision-making. Students in this course are introduced to cash flow diagrams as well as the time value of money concepts of present worth, future worth, and annual worth. This course covers various economic analysis techniques for the comparison and selection of competing economic alternatives. Topics on the proper handling of inflation, depreciation, taxes, and risk are described.

**General Studies:** Social and Behavioral Sciences

### CET 3135 - Mechanics of Materials with Laboratory

**Credits:** 4

**Prerequisite(s):** CET 2150 and JMP 2610 with grades of "C" or better; or permission of instructor

**Prerequisite(s) or Corequisite(s):** MTH 2410 or permission of instructor

**Description:** This course introduces the theory of strength of materials, stresses, and strains in members subjected to tension, compression, torsion, and shear. Flexural and shearing stresses in beams, principal stresses, and deflection of beams, column analysis,

and indeterminate structures are also introduced. The laboratory component of the course is structured to give students experience in the use of laboratory equipment for conducting axial loading, shear and bending tests on various materials.

#### **CET 3170 - Introduction to Structural Analysis**

**Credits:** 3

**Prerequisite(s):** CET 3135 with a grade of "C" or better, or permission of instructor.

**Description:** This course presents and applies the principles of structural analysis to statically determinate and indeterminate structures.

#### **CET 3185 - Fluid Mechanics I for Civil Engineering Technology**

**Credits:** 3

**Prerequisite(s):** MET 3160 with a grade of "C" or better, or Permission of instructor

**Description:** This course covers and studies the engineering applications of physical properties of ideal fluids, real fluids, hydrostatics, kinematics, energy considerations, momentum principle, dimensional analysis, and incompressible flow in pipes and ducts.

#### **CET 3190 - Fluid Mechanics II for Civil Engineering Technology**

**Credits:** 3

**Prerequisite(s):** CET 3185 with a grade of "C" or better

**Description:** This course is a continuation of the fundamentals introduced in Fluid Mechanics I for Civil Engineering Technology, with emphasis on the analysis of forces on immersed bodies, steady flow in open channels, fluid measurements, and the problems associated with unsteady fluid flow.

#### **CET 3320 - Environmental Impact Statements**

**Credits:** 3

**Prerequisite(s):** At least junior standing, or Permission of instructor

**Description:** This course is a study of the physical and legal requirements of the environmental impact assessment process. Students will learn to do information research and prepare a draft environmental impact statement.

#### **CET 3330 - Environmental Technology Processes**

**Credits:** 3

**Prerequisite(s):** CHE 1100 or CHE 1800 with a grade of "C" or better, at least junior standing; or permission of instructor

**Description:** This course covers chemistry basics, acid-base reactions, biochemical processes and reactions. Also included is an overview of water and wastewater processes following fieldtrip(s) in this area.

#### **CET 3980 - Internship in Civil Engineering Technology**

**Credits:** 1-15

**Prerequisite(s):** Major in civil engineering technology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

#### **CET 4100 - Capstone: Design Project I**

**Credits:** 1

**Prerequisite(s):** CET 3120 and JMP 2610 and MTH 2420 and one of the following: CET 4120 or CET 4400 or CET 4450 with grades of "C" or better; senior standing

**Description:** This course requires the planning and designing of a team project in consultation with faculty advisors and industry contacts.

**University Requirement(s):** Senior Experience

#### **CET 4110 - Capstone: Design Project II**

**Credits:** 2

**Prerequisite(s):** CET 4100 with a grade of "C" or better

**Description:** In this course, the students will build, test, and demonstrate the project they started in CET 4100. Written technical reports and oral presentations on the project are required. Part of this course involves the student working with a faculty member who acts as a consultant.

**University Requirement(s):** Senior Experience

#### **CET 4120 - Concrete Design I**

**Credits:** 3

**Prerequisite(s):** CET 3135 with a grade of "C" or better, or permission of instructor

**Description:** This course is a basic introduction to the fundamental principles of reinforced concrete design according to current ACI Code. The course covers flexural analysis and design of beams and one-way slabs, serviceability, bond and development lengths, and shear and diagonal tension.

#### **CET 4130 - Soil Mechanics**

**Credits:** 4

**Prerequisite(s):** CET 3135 with grade of "C" or better, and senior standing

**Prerequisite(s) or Corequisite(s):** CET 3185 with "C" or better or permission of instructor

**Description:** This course covers the principles of soil mechanics and fundamentals of application in geotechnical engineering. This course

covers soil behaviors and mechanical properties of soil, engineering classification of soil, permeability and seepage, consolidation and settlement, shear strength, lateral earth pressures, fundamentals of retaining structures, soil bearing capacity, and slope stability. This course also provides students the opportunity to obtain "hands-on" experience with some of the laboratory tests, techniques used in geotechnical engineering data collection and analysis methods.

### **CET 4135 - Foundation Engineering**

**Credits:** 3

**Prerequisite(s):** CET 4130 with grade of "C" or better

**Description:** The course applies engineering mechanics and soil mechanics principles to the provision of safe designs for foundations of bridges, buildings, towers and other structures. This course covers the analysis and design of shallow foundations, spread footings, mats, deep foundations, earth retaining structures and site exploration and characterization. It is a practical design course in foundation and geotechnical engineering.

### **CET 4140 - Concrete Design II**

**Credits:** 3

**Prerequisite(s):** CET 4120 with a grade of "C" or better, or Permission of instructor

**Description:** This course is a continuation of the fundamentals introduced in Concrete Design I, with emphasis on the analysis and design of columns, footings, retaining walls, two-way slabs, and introduction of principles of prestressed concrete.

### **CET 4150 - Highway Engineering and Surveying**

**Credits:** 3

**Prerequisite(s):** At least junior standing; or permission of instructor

**Description:** This course is a specialized course in requirements, functional characteristics, and system characteristics of highway design, incorporating surveying essentials for the civil engineering field. The course develops design methods, procedures, and analysis for pavement design, roadway alignment, and user information for freeways, city arterials, and rural roadways.

### **CET 4200 - Experimental Methods in Structural Engineering**

**Credits:** 3-6

**Prerequisite(s):** CET 3135

**Description:** In this course, students will be dealing with the aspects of static and dynamic testing methods of structures made of steel, concrete, or timber. Students will be introduced to test planning, specimen design and building, loading systems and instrumentation, data acquisition and processing. They will be involved in laboratory applications and hybrid techniques, illustrative physical and numerical simulations.

*Note: This course is repeatable up to 6 credits.*

### **CET 4400 - Steel Design I**

**Credits:** 3

**Prerequisite(s):** CET 3135 with a grade of "C" or better, or

permission of instructor

**Description:** This course focuses on the analysis and design of structural steel members, based on the latest edition of AISC design requirements and specifications for structural steel.

### **CET 4410 - Steel Design II**

**Credits:** 3

**Prerequisite(s):** CET 4400 with a grade of "C" or better, or permission of instructor.

**Description:** This course is a continuation of the fundamentals introduced in Steel Design I, with emphasis on the analysis and design of structural steel connections, based on the latest AISC design requirements and specifications for structural steel.

### **CET 4450 - Timber Design**

**Credits:** 3

**Prerequisite(s):** CET 3135 with a grade of "C" or better, or permission of instructor

**Prerequisite(s) or Corequisite(s):** CET 3170

**Description:** This course focuses on the analysis and design of wood structures based on the latest edition of the *National Design Specifications for Wood Construction and Supplement*.

### **CET 4570 - Engineering Law**

**Credits:** 3

**Prerequisite(s):** CET 3120 or Permission of instructor

**Description:** This course provides the student with a basic understanding of contract laws and regulations, laws that govern the execution of the work being performed under the contract, laws that relate to the settling of differences and disputes, and licensing laws.

## **Communication Design**

### **CDES 2222 - Fundamentals of Communication Design**

**Credits:** 3

**Prerequisite(s):** ART 1531 OR IND 2100; ART 1101, ART 1141, ART 1501, AND ARTH 1700 with "C-" OR better; OR JMP 2430 AND JMP 1000; or permission of department

**Description:** Students in this course learn fundamental theories and principles of communication design for print and screen media as a means to solve problems visually. Emphasis is on idea generation, processes, and concepts that integrate the use of specific technologies. Within this context students investigate the role of design and how it informs contemporary culture. This is an integrated media course.

### **CDES 2225 - Typographic Syntax**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, AND ART 1531 OR IND 2100 with "C-" or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700

**Description:** Students in this course are introduced to the study of typography focusing on the function of typography as a visual language, a form of communication, and a central theme in the field of communication design. Subjects explored include typographic history, anatomy, construction and design, grid systems, and identification and classification systems. Functional issues of setting and using typography with sophistication within a variety of contexts are central to this course.

### **CDES 2226 - Design Inquiry**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600 and ENG 1020 or ENG 1021 or ENG 1009 or ENG 1010; or permission of department

**Prerequisite(s) or Corequisite(s):** ARTH 1700 or permission of department

**Description:** Students in this course are introduced to the fundamental theories, principles, and objectives of the communication design field. Critical frameworks presented in readings respond to historic and contemporary contexts that define design practice and its impacts. The function of designed communications as products, services, and experiences are assessed in their relationship to culture through social, economic, and environmental factors. Theoretical and practical content includes the role technology and audience experience play in a contemporary context where "design" is ubiquitous.

### **CDES 2302 - Interactive Systems**

**Credits:** 3

**Prerequisite(s):** ART 1531; plus either ART 1101, ART 1141, ART 1501, and ARTH 1600; or JMP 2430 and JMP 1000; or permission of department.

**Description:** Students in this course research and investigate various methods of constructing design processes and interactive systems for digital audiences. Students implement design frameworks and mapping for interactive components while gaining fundamental skills in user experience research and interaction design, including foundational user interface design competencies. Emphasis is placed on usability, accessibility and user-centered design strategies for creating foundational interactive experiences. This is an integrated media course.

### **CDES 2602 - Interface Design and Development**

**Credits:** 3

**Prerequisite(s):** ART 1531; plus either ART 1101, ART 1141, ART 1501, and ARTH 1600; or JMP 2430 and JMP 1000; or permission of department.

**Description:** Students in this course examine contemporary standards of interactive web design and development. Students investigate contemporary design culture, conceptual development and technical learning capabilities with application to real-world scenarios based on industry expectations and procedures. As author and designer, students produce a functioning website utilizing the web as a vehicle for community-driven collaborations. Students gain knowledge of intuitive user interface design tools and foundational web development. This is an integrated media course.

### **CDES 3001 - Zeromile and 'Zines**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 and CDES 3215 with C- or better in each.

**Description:** Students in this course examine communication design's role in print publishing. Zeromile is a self-funded, annual, print and Internet magazine published collectively by students and faculty in the Communication Design program. In addition to performing a staff role on Zeromile students self-publish their own magazines ('zines) and books. Topics include editorial design and content development, print publishing software and tools, print production and post-production techniques, copyright issues, publication, distribution and the business of publishing.

*Note: This course is repeatable for a maximum of six semester hours.*

### **CDES 3101 - Community-Based Design**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 and ART 3237 or ART 3393 or CDES 2602 or CDES 3625 with "C-" or better in each.

**Description:** This course challenges students to formulate design solutions that create positive change collaboratively with underserved or marginalized communities and individuals. Sometimes referred to as design in the public interest, this course facilitates interaction between student designers and those in need of life-changing design solutions. Students work in teams to solve triple bottom line issues through social, environmental and economic filters. Emphasis is on development projects that can be implemented regionally, nationally or internationally. Students are required to work in a highly inclusive manner with project participants. This is an integrated media course.

*Note: This course is repeatable for up to 6 credits.*

*Some sections of this course may be taught as Service Learning.*

### **CDES 3215 - Typographic Aesthetics**

**Credits:** 3

**Prerequisite(s):** ART 1101, ART 1141, ART 1501, ART 1531, ARTH 1600, ARTH 1700, CDES 2222, and CDES 2225 with "C-" or better in each; or permission of department

**Description:** Students in this course conduct critical studies of typographic design with an emphasis on the meaning, application, and aesthetics of typography solutions by examining typographic form, function, and concepts. Students analyze and criticize the meaning of typographic form in various social, cultural and historical communication contexts. Students construct and design custom typefaces while further practicing and analyzing critical conceptualization, authoring, and research skills.

### **CDES 3222 - Design Research Methods**

**Credits:** 3

**Prerequisite(s):** CDES 2222, CDES 2225 and CDES 2226 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 2302 and CDES 3215 with C- or better in each; or permission of department

**Description:** This course examines how designers conduct research in order to produce relevant and meaningful visual communications

that are appropriate for specific audiences, cultures, and contexts. Students learn how to harness meaning and potential in their work by applying a range of research methods to their everyday design practice. Concepts include developing and using ethnographic strategies, personas, interviewing, and iterative design processes among others. Students work in teams, putting theory into action, which informs collaborative design practice thereafter.

### **CDES 3225 - Integrated Production Techniques**

**Credits:** 3

**Prerequisite(s):** CDES 3215 with C- or better or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222 with a C- or better or permission of department

**Description:** Students in this course are offered a specialized focus on production techniques integral to the practice of communication design. The application of integrated methods bridges design concepts and design forms in a variety of mediums including traditional print publishing, packaging, and product development. Students examine multi-level publishing, content management, production workflow, integrated software use, and print and new media production and post-production. This course is restricted to Communication Design majors who have passed the BFA in Communication Design portfolio review.

### **CDES 3300 - Data-Driven Design**

**Credits:** 3

**Prerequisite(s):** ART 1531 with "C-" or better; either ART 1101, ART 1141, ART 1501, and ARTH 1600 with "C-" or better; or JMP 2430 and JMP 1000.

**Description:** Students in this course explore the practical and theoretical aspects of data driven design. Students learn to visually communicate information clearly by creating dynamic, information rich, and interactive projects by using current programming and compositing applications. Research and presentation skills, conceptual thinking, and the integration of technological and design methodologies are explored throughout the course. This is an integrated media course.

### **CDES 3500 - Site Specific Studies in CDES: Variable Topics**

**Credits:** 3

**Prerequisite(s):** CDES 2222; or permission of instructor

**Description:** Students in this course travel to a city or a region and explore design practices that are specific to the location. Emphasis is placed upon the contemporary, historical, geographical, and philosophical context of cultural sites, design studios, public spaces, and other sites visited or viewed. Combining field study and studio practice, design work will be made on-site in response to the social and cultural immersion.

*Note: Variable topics; may be repeated for up to 9 credits under different topics.*

### **CDES 3602 - Interactive Design I**

**Credits:** 3

**Prerequisite(s):** CDES 2602 and CDES 2302 with C- or better in each; or permission of department

**Description:** Students in this course explore the theory and practice of designing for multiple devices. Students create and implement consistent design applications that function across multiple devices and scenarios. By designing interfaces that respond to changes in the current environment, students further their knowledge of user experience design, user interface design, and advanced web development. The ability to apply these skills to real-world scenarios based on industry expectations and procedures are demonstrated. Emphasis is on the exploration of trends in technology that are bridging disciplines and offering new opportunities to designers. This is an integrated media course.

### **CDES 3623 - Identity and Systems Design**

**Credits:** 3

**Prerequisite(s):** CDES 3215 with C- or better; or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222 with a C- or better; or permission of department

**Description:** Students in this course focus on the historical and contemporary practice of designing brand identity and related systems applications. Subjects for investigation include identity design, application of brand strategy, and design of system architecture. Students research design processes, create communicative identity marks, and apply strategies to design systems, applications, products and services. Students engage in an in-depth study of the qualities, ideals, elements and dynamics that shape branded communication design outcomes. Emphasis is on creating strong, clear conceptualization processes over a series of related communication design pieces that cross digital, social media and print formats.

### **CDES 3625 - Narrative Design**

**Credits:** 3

**Prerequisite(s):** CDES 2222 or CDES 2302 or CDES 2602 or CDES 3222 with "C-" or better in each; or permission of department.

**Description:** This course explores the challenge of designing for linear versus non-linear narrative structures. Diverse design principles and ideologies are covered. Exploration focuses on inventive formulation of content and media using contemporary digital design techniques and technologies to convey plot and storyline. The role of narrative in culture and society is discussed. Research and presentation skills, conceptual thinking, and the integration of technological and design methodologies are explored throughout the course. This is an integrated media course.

### **CDES 3980 - Communication Design Junior Internship**

**Credits:** 1-4

**Prerequisite(s):** At least sophomore standing; cumulative MSU Denver GPA of 2.5 or higher; and CDES 3215 with a "C-" or better; or permission of department

**Description:** Students in this junior-level communication design internship gain "real world" experience in the discipline of design, building upon knowledge gained in the classroom. This course

functions as an elective and can be a supportive precursor to the required, senior-level internship, CDES 4625.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable credit; course may be repeated for a maximum of twelve total credit hours. Repeated experiences must either be at different employer or with significantly different tasks. Fieldwork requires a minimum of 50 contact hours for each semester credit hour.*

### **CDES 4051 - Sight Sound Syntax**

**Credits:** 3

**Prerequisite(s):** CDES 3215 with a C- or better, or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222 with a C- or better, or permission of department

**Description:** Students in this course explore how communication design is enriched via the employment of sensory experiences. Through the multidimensional relationships among typography, photographic sequencing, and originally generated sound, students are introduced to shared elements of auditory and visual composition: theme, rhythm, harmony (including consonance and dissonance), texture, dynamics, color, and form. Exploration focuses on interpretive visualizations that include experimental interactive studies referred to as sonigraphics. Studies in abstract typography, grid systems, photographic sequencing, and sound experiments challenge students to arrive at associative and interactive solutions. Students work individually and in teams to synthesize and exhibit their understanding of the conceptual and structural relationships between visual and sonic media. They demonstrate the capacity to design engaging and compelling solutions as applied to real-world scenarios.

### **CDES 4151 - Design in Public Space**

**Credits:** 3

**Prerequisite(s):** CDES 3215 with a C- or better or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222 with a C- or better or permission of department

**Description:** Students in this course develop critical and technical skills as they relate to contemporary design as practiced for both advertising and community based design in public space. Exploration of Communication Design for the public space focuses on developing skills that communicate to diverse urban communities and are relevant to contemporary design culture. Students foster a visual language that reflects the philosophical, conceptual, and technical demands of design for the public space through site-specific research, problem identification, ideation, and prototyping.

### **CDES 4152 - Citizen Designers: Social Poster Design**

**Credits:** 3

**Prerequisite(s):** CDES 3215; or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222; or permission of department

**Description:** Students in this course explore themes of social advocacy with emphasis placed upon research, process and production techniques through poster design. Social causes are addressed through large-scale print media as a platform for communication, applied to real-world scenarios. As a medium for social change, posters are persuasive, conceptual, educational and informational as platforms for advocacy through the public dissemination of ideas. Students demonstrate the designer's role in social and political frameworks, integrating how to respond to cause-based contexts in relation to design and communication.

### **CDES 4202 - Interactive Design II**

**Credits:** 3

**Prerequisite(s):** CDES 3602 with "C-" or better or permission of department.

**Description:** Students in this course build upon the skills and knowledge acquired in CDES 3602 - Interactive Design I. Students continue to explore the theory and practice of designing for multiple devices as well as advanced user interface design and web development variables. This course provides students with expanded comprehension of how to create design applications that function across multiple devices by responding to changes in various environments and scenarios. Students demonstrate their ability to apply these skills to real-world scenarios based on industry expectations and procedures. Emphasis is on the advanced exploration of trends in technology that are bridging disciplines and offering new opportunities to designers. This is an integrated media course.

### **CDES 4251 - Designing the Human Experience**

**Credits:** 3

**Prerequisite(s):** CDES 2222 and ART 1505 or ART 3301 or ARTH 2600 or ARTH 3690 or ARTH 4480 or CDES 3602 or CDES 3625 or IND 3000; or permission of department

**Description:** Students in this course learn that good design can serve to enrich the human experience. Students explore a spectrum of life experiences and/or personal events, which may include habit, memory, disaster, and imagination, as inspiration to create and implement positive design solutions. Students produce a series of intensive, multi layered projects with emphasis on tracking, recording, and journaling the human experience. Students build upon their knowledge of design discourse in the discipline through a mix of readings, writings, and development of rich, meaningful design projects. Design projects are presented in a variety of media. This is an integrated media course.

### **CDES 4252 - Mobile Prototyping**

**Credits:** 3

**Prerequisite(s):** ARTH 2080, CDES 2602 and CDES 2302 with "C-" or better in each; or permission of department

**Description:** Students in this course create mobile applications via user experience, user interface design, and interactive prototyping. Exploration and emphasis is placed upon usability, accessibility as well as user-centered design methodologies and processes in this

growing digital medium. Students utilize design thinking to better respond to diverse audiences, implement mobile strategy and content in order to create a working design system for mobile applications, inclusive of prototyping and testing. Human-centered design, dependent on the psychology and intersection of usability within digital mediums, is discussed, evaluated and applied to interactive prototyping in response to technology's continual diversification of end-user products. This is an integrated media course.

#### **CDES 4300 - Variable Topics in Communication Design**

**Credits:** 3

**Prerequisite(s):** CDES 2222 and CDES 2225 with a "C-" or better, or permission of department

**Corequisite(s):** CDES 2226

**Description:** This course provides a thematic forum in communication design for advanced-level students to develop critical and technical skills as they relate to contemporary design practices. Exploration within the theme focuses on developing skills that communicate to diversified communities and are relevant to contemporary design culture. Students foster a visual language that reflects thematic course content. Projects may be produced in a variety of design applications based on course content. Variable topics: may be repeated for up to 9 credits under different topics.

#### **CDES 4400 - Thesis Preparation**

**Credits:** 1

**Prerequisite(s):** CDES 2226 and CDES 3215 with C- or better in each; or permission of department

**Prerequisite(s) or Corequisite(s):** CDES 3222 with C- or better; or permission of department

**Description:** Students in this course develop a thesis topic supported by a research question, which becomes the basis for a thesis project exhibition the following semester in CDES 4721. Students research and propose a topic for investigation: they craft a research question, refine an abstract, and create visual studies of a project concept in an exhibition context. This course is restricted to Communication Design majors.

#### **CDES 4450 - Professional Practices in Communication Design**

**Credits:** 3

**Prerequisite(s):** CDES 3215 and CDES 2302 with "C-" or better in each.

**Prerequisite(s) or Corequisite(s):** CDES 2602, CDES 3222 and CDES 3225

**Description:** Students in this course are provided an overview of professional practices in communication design. Professional practices range from resume writing and job application material development to best practices in conducting contract and freelance work and pitching concepts in front of clients. Topics include strategies for personal communications packages, networking, applying for jobs, interviewing skills, and ethical practices in the work place as a design employee or proprietor in a wide variety of workplace settings. Entrepreneurial initiatives are covered from starting a business to negotiating contract and/or freelance work and bidding on jobs. This course is restricted to communication design majors.

#### **CDES 4600 - Communication Design Portfolio Development**

**Credits:** 3

**Prerequisite(s):** Senior standing; completion of Written Communication, Oral Communication, and Quantitative Literacy General Studies requirements; ARTH 2080, CDES 3225, CDES 3623, CDES 3625, and CDES 4450 with "C-" or better in each; or permission of department.

**Prerequisite(s) or Corequisite(s):** ARTH 3690 and CDES 3001 or CDES 3101 or CDES 3300 or CDES 3500 or CDES 3602 or CDES 3980 or CDES 4051 or CDES 4151 or 4152 or CDES 4202 or CDES 4251 or CDES 4252 or CDES 4300

**Description:** Students refine an existing body of work to generate final portfolio solutions. Students explore the critical nature of their work by clarifying project results, and as necessary, redeveloping outcomes, for presentation in both web and print-based portfolios. Writing and critical inquiry skills supporting portfolio development are emphasized. The portfolio work generated in this course will be used in the course CDES 4721 - Communication Design Senior Experience: Exhibition and Thesis.

**University Requirement(s):** Senior Experience

#### **CDES 4625 - Communication Design Internship**

**Credits:** 3

**Prerequisite(s):** CDES 3225 and CDES 4450 with "C-" or better and permission of department

**Description:** Students in this course apply for and acquire a communication design internship identified for its professional challenges and overall integrity. Students gain "real world" experiences in the discipline of design building upon previous knowledge gained in the classroom. Fieldwork requires a minimum of 150 contact hours for three semester credit hours. This course is restricted to communication design majors.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

#### **CDES 4650 - Studio M**

**Credits:** 3

**Prerequisite(s):** CDES 3225 and CDES 4450 with "C-" or better and permission of department

**Description:** This course operates as a functioning design studio where communication design students work collaboratively with course faculty and peers and a range of university and/or community sponsors. Sponsored projects are taken from initiation and planning through to final production and implementation based on the requirements of the design brief. This unique mentored opportunity requires students to apply for a limited number of available design positions in Studio M. Studio M requires a minimum of 150 contact hours for three semester hours. The course fulfills the senior level internship requirement in the Communication Design major.

*Note: This course may be repeated once for up to 6 credits total. Some sections of this course may be taught as Service Learning.*

## **CDES 4721 - Communication Design Senior Experience: Exhibition and Thesis**

**Credits:** 3

**Prerequisite(s):** Satisfaction of Written Communication, Oral Communication, and Quantitative Literacy course requirements; ARTH 4480 AND CDES 4400 with "C-" or better in each; and senior standing; or permission of department.

**Prerequisite(s) or Corequisite(s):** ARTH 3690 AND CDES 4600 AND (CDES 4625 OR CDES 4650), AND CDES 4450 AND CDES 4700 with C- or better in each

**Description:** Students in this BFA in Communication Design capstone course create a thesis project, research and write a thesis paper, participate in a public exhibition, and defend their work in a formal, final review setting. Students synthesize learning from previous coursework and articulate meaning in their thesis investigations relative to art and design theories, movements, and conceptual and philosophical frameworks. Students work in teams to conceptualize, organize, and present an exhibition consisting of the work of participating art and design students. A blend of team and individual activities punctuate the semester experience culminating in the public thesis exhibition.

**University Requirement(s):** Senior Experience

## **CDES 4801 - Communication Design Studio Assistantship**

**Credits:** 1-4

**Prerequisite(s):** Permission of department

**Description:** This studio course allows the advanced student to put into use the studio skills learned in previous courses to assist faculty and other students. Students learn to assist in laboratories, maintain tools and equipment, mix chemicals (if appropriate) and handle and stock supplies in an appropriate manner. They demonstrate techniques and assist other students with technical and creative questions.

*Note: Variable credit; course may be repeated once for a maximum of 6 semester hours of credit with different duties.*

## **CDES 4802 - Letterpress Assistantship**

**Credits:** 1-4

**Prerequisite(s):** Permission of department

**Description:** This studio course allows the advanced student to put into use letterpress printing operation and skills learned in previous courses and through specialized training workshops to assist faculty and other students. Students learn to assist in laboratories, maintain letterpress tools and equipment, and handle inks and stock supplies in an appropriate manner. They demonstrate techniques and assist other students with technical and creative questions.

*Note: Variable credit; course may be repeated once for a maximum of 6 semester hours of credit.*

## **CDES 4842 - Directed Studies in Communication Design**

**Credits:** 1-4

**Prerequisite(s):** CDES 3625 with "C-" or better and permission of department; student must provide a suitable laptop computer.

**Description:** This course provides advanced, independent studio

work in communication design with emphasis on the production of finished work in preparation for either senior portfolio or thesis exhibition. The student integrates techniques and skills learned in previous courses to develop an individual voice and create a coherent body of work.

*Note: Variable credit; this course may be repeated once for a maximum of 6 semester hours total credit.*

## **CDES 4848 - Directed Studies in Letterpress**

**Credits:** 1-3

**Prerequisite(s):** CDES 2225 or Art 2682 with "C-" or better and permission of department

**Description:** Students in this course create advanced, independent studio work in communication design with emphasis on the production of finished work in letterpress printing through an emulation of the traditional Letterpress apprenticeship model in which knowledge is continually passed on to those with less experience. Skills learned in previous courses and through specialized training workshops are used to produce advanced studio work. Students become familiar with type and presses through ongoing maintenance training and activities. Students learn to assist in laboratories, maintain letterpress tools and equipment, handle inks and supplies in an appropriate manner. They demonstrate techniques and assist other students with technical and creative questions.

*Note: Variable credit; course may be repeated once for a maximum of six hours of credit.*

## **Communication Studies**

### **COMM 1010 - Presentational Speaking**

**Credits:** 3

**Description:** This course teaches students how to design and deliver effective, ethical presentations. The ability to adapt to different audiences and contexts - such as professional or public situations - is emphasized. The course provides instruction on and practice of organization, delivery and performance, technology, and research skills. Students also learn effective listening techniques and critical thinking skills. The course empowers students to become successful professional presenters and public speakers.

*Note: Credit will be granted for only one prefix: COMM or HON.*

*Sections of this course may be offered in-person, in hybrid format, or online.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** HON 1013

### **COMM 1100 - Fundamentals of Oral Communication**

**Credits:** 3

**Description:** This is an introductory course in the art and process of communicating with people in a variety of environments and contexts. This class provides students with insight and tools from communication research to analyze communication situations and develop effective, ethical messages appropriate to purpose, audience, context and medium. The course emphasizes developing basic communication skills in listening, assertive communication, self-analysis, presentations, and managing conflict.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** HON 1710

### **COMM 2010 - Gender and Communication**

**Credits:** 3

**Description:** This course explores the relationship of gender to the communication process examining issues of power, conflict, sex role stereotypes, and cultural patterns of interaction on relationships and identity. Students explore the multiple ways that masculinity and femininity are created and sustained through communication in such contexts as families, schools, the workplace, and the media. Students use feminist theoretical perspectives and interpretive approaches from communication studies to analyze cultural assumptions and the relationships of notions of gender to class, sexuality and race.

*Note: Credit will be granted for only one prefix: COMM or GWS.*

**General Studies:** Arts and Humanities

**Cross Listed Course(s):** GWS 2770

### **COMM 2020 - Introduction to Health Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** This course explores the essential connections between communication processes and human health. Different modes of communication are considered in contexts that range from one-on-one conversations to information exchange with large groups. The importance of relationships, culture, technology, and media for health practices are also explored.

*Note: Credit will be granted for only one prefix, COMM or SLHS.*

**Cross Listed Course(s):** SLHS 2990

### **COMM 2030 - Intercultural Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or permission of instructor

**Description:** This course applies communication approaches and perspectives to intercultural communication processes within and outside of the United States. The major emphasis in the class is on face-to-face communication within and between members of different cultures and the impact of popular culture on those communications. Living in a global society, it is imperative to know how different cultures communicate around the world. In the course, students will examine the complex relationship between culture, communication, power, and context from three conceptual perspectives: the social scientific perspective, the interpretive perspective, and the critical perspective.

### **COMM 2040 - Team and Group Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** This course introduces students to communication-related group dynamics and team processes that are essential in

today's workplaces and communities. Students learn skills and strategies for communicating with different kinds of people, for diverse purposes, and in a variety of contexts.

### **COMM 2200 - Introduction to Interpersonal Communication**

**Credits:** 3

**Description:** This course surveys the theory and practice of interpersonal communication in environments ranging from face-to-face communication to computer-mediated interaction. Students learn concepts and tools essential to self-awareness, listening, assertive and effective communication, cultural competence, and conflict management. These fundamental 'people skills' are explored across relationships in personal, professional, and public life.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **COMM 2300 - Introduction to Organizational Communication**

**Credits:** 3

**Description:** This course introduces students to the study of organizational communication theory and practice. It surveys communication-related phenomena such as organizational identity, culture, leadership, and networks. Internal, external, everyday, and strategic communication processes are addressed. Students learn to analyze organizations as systems of communication that both shape and are shaped by individuals and society.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **COMM 2400 - Introduction to Rhetoric and Popular Culture**

**Credits:** 3

**Description:** This course introduces students to the rhetorical and critical study of popular culture. Classical and contemporary approaches to examining discourse, persuasion, and cultures are discussed. Students develop analytical tools to identify and explain connections between popular culture and power, identity, diversity, and more. Students also reflect on how they consume and produce popular culture, and how that shapes their sense of self and connections to others.

**General Studies:** Arts and Humanities

### **COMM 3000 - Diversity and Communication in the U.S.**

**Credits:** 3

**Description:** This course examines the relationship between communication and cultural identity with emphasis on the application to four groups of color in the United States: African American, Asian American, Hispanic, and Native American. The goal of the course is to broaden students' perspectives on the power of communication to shape our lived experience and to expand students' capacities to adapt ethically to a changing and diverse world. Students will explore verbal and non-verbal differences and similarities across cultures and critique the communicative construction of ethnocentrism, bias, prejudice, and discrimination.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural  
**Cross Listed Course(s):** HON 3760

### **COMM 3010 - Business and Professional Speaking**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** This course prepares students to communicate competently in professional settings. Students practice communicating in simulated business, public, and employment-related settings. Communication challenges addressed may include employment interviews, online profiles and communication, informational presentations, and team presentations. This course does not satisfy the General Studies Oral Communication requirement.

### **COMM 3020 - Advanced Public Speaking**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or HON 1013 or Permission of Instructor; Students must possess a GPA of 3.3 or higher, or be a member of the MSU Denver Honors Program.

**Description:** This course prepares students to design and deliver technical and/or professional presentations with an advanced level of skill. Students select one course project or theme and develop several presentations for different audiences and settings-these include: academic conferences and/or technical presentations to professional associations, public presentations on complex topics, and research poster sessions or business expos. This course is useful for students who plan to earn graduate degrees or seek employment in positions that require communication of complex information.

*Note: To register for this course, students must be enrolled in the MSU Denver Honors program or have a 3.3 or higher GPA.*

### **COMM 3030 - Group Communication and Collaboration**

**Credits:** 3

**Description:** This course explores issues and skills relevant to the development and maintenance of effective groups and teams. Expert, complex, high-risk, virtual, and other types of teams are discussed. Simulation and team exercises enable students to practice skills and develop team communication expertise.

### **COMM 3040 - Crisis Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** This course covers communication strategies for recognizing, assessing the risk of, identifying the sources of, and effectively responding to organizational crises. Stakeholder analysis, ethical concerns, and emerging trends in the profession of crisis communication are explored in this course. Interpersonal and public communication, traditional media, and new communication technologies are addressed.

### **COMM 3060 - Speech and Thought in a Digital Age**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or permission of instructor

**Description:** This course critically examines the physiological foundations of speech and thought. Intrapersonal communication is examined as an essential aspect of public presentation of self through speech. Students develop a fundamental understanding of the theories, concepts, and themes in the study of speech communication as central to the formation of thought, experience, and meaning. Attention is given to the significance of technologies for these processes. This course does not satisfy General Studies requirements for Oral Communication.

**General Studies:** Social and Behavioral Sciences

### **COMM 3070 - Interpersonal Negotiation**

**Credits:** 3

**Description:** This course focuses on skills and theories essential to the resolution of interpersonal, group, and organizational conflict. Distributive, integrative, collaborative, and mediated approaches to negotiation are covered. Topics such as conflict frames, cognitive biases, types and sources of power, and problematic communication styles are addressed. Students practice negotiation skills in simulation exercises.

### **COMM 3100 - Communication Theory**

**Credits:** 3

**Prerequisite(s):** COMM 1100

**Description:** This course surveys a variety of objective and interpretive styled theories, fleshing out the role of communication within each. The course explores theories in interpersonal, relationship development, relationship maintenance, influence, group decision-making, organizational communication, rhetoric, media, culture, and gender. The course is designed to give the students a foundation in communication vocabulary, basic knowledge of key theories, introduction to reading research journals, and application of theory to human communication.

### **COMM 3110 - Applied Communication Research Methods**

**Credits:** 3

**Prerequisite(s):** COMM 1100, COMM 3100

**Description:** This course exposes students to the different kinds of research that is conducted by communication professionals and scholars. The course prepares students to understand basic concepts of communication research and the variety of ways in which communication can be studied and measured in applied contexts. Students learn by practicing methods commonly employed by industry and academic researchers - including textual review, interviews, surveys, focus groups and basic statistical techniques.

### **COMM 3120 - Analyzing Talk and Interaction**

**Credits:** 3

**Description:** Face-to-face interaction is a defining feature of human behavior. It is where language, bodily movement, and other modalities of expression become socially enacted as talk. Through

this course, students collect and prepare data to examine this special site of human existence, focusing on how people coordinate and situate their language and bodies within a richly structured social, cultural, and material world.

**Cross Listed Course(s):** ANT 3520, SOC 3360

### **COMM 3210 - Family Communication**

**Credits:** 3

**Description:** This course is designed to assist students to better understand and improve interpersonal communication processes in families, including dual-career communication problems, personality patterns, family group roles and their impact on interaction, verbal and nonverbal messages in family contexts, and managing family interpersonal conflict and change.

### **COMM 3220 - Communication and the Elderly**

**Credits:** 3

**Description:** This course is designed to investigate the particular communication patterns and problems of the aged. It focuses on culturally communicated attitudes toward elderly persons via media, marketing, and institutions, as well as specific communication issues of the aged, such as the communication of intimacy, friendship, control, interaction in work environments, home life, retirement, and death.

### **COMM 3310 - Communication Systems and Structures in Organizations**

**Credits:** 3

**Description:** This course examines current theories of organizational communication that focuses on interdependence of organizations and how external and internal structures influence individual organizing patterns and communication behaviors.

This course introduces students to understand organizational communication as fluid and dynamic networks. Students learn how to analyze organizations as networks of self-organizing that are constantly evolving in dynamic communities as new network links are created, and dysfunctional ones are dissolved.

### **COMM 3320 - Communication and Quality of Work/Life**

**Credits:** 3

**Description:** This course examines the role of communication in issues of work/life. Students explore exactly what is communicated at work and the pervasiveness of organizations in our lives. By examining organizations through an ethical lens, students articulate what happens when organizations behave poorly or may not have workers best interest in mind. Students explore a variety of case studies to help illustrate various theoretical constructs. Students also contest the social construction of the modern "professional" and reflect on ways to empower oneself with communication strategies that may help foster a higher quality of work/life.

### **COMM 3330 - Organizational Culture and Identity**

**Credits:** 3

**Description:** This course introduces students to the interdisciplinary study of organizational and professional identity formation, maintenance, and change. Internal and external communication processes related to defining an organization/profession and its image are explored. Students apply theories and techniques for evaluating and crafting organizations' and occupations' socialization processes, cultures, and brands or images. Students engage with real-world case studies and original research in this course.

### **COMM 3340 - Leadership Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** In this course, students learn leadership communication theories and hone skills for career advancement. Leadership functions, strategies, contexts, and ethics are explored. Students also reflect upon and develop their own leadership abilities.

### **COMM 3400 - Rhetorical Criticism**

**Credits:** 3

**Prerequisite(s):** COMM 2400

**Description:** This course focuses on the historical and critical methodologies for analyzing rhetorical efforts, both from the point of view as an intellectual discipline and as a practical art in a democratic society.

### **COMM 3410 - Rhetoric and Public Culture**

**Credits:** 3

**Prerequisite(s):** COMM 2400

**Description:** This course examines public culture through the lens of rhetorical theory. Using a variety of critical approaches (structuralism, post-structuralism, Marxism, feminism, etc.), we examine various aspects of public culture, including economies of production and consumption of public culture, ways to critically read public culture artifacts, and methods for recognizing implicit value and power in these texts. We engage public culture in various ways in order to investigate how public culture communicates meaning and produces personal, professional, and public identities.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**Cross Listed Course(s):** HON 3304

### **COMM 3420 - Arguing Constructively**

**Credits:** 3

**Prerequisite(s):** COMM 1010 and ENG 1009 or ENG 1010 or permission of instructor

**Description:** In this course, students focus on the principles of critical thinking and reasoning in the use of oral and written argumentation in a range of communication contexts such as political, public, interpersonal, global, mass media, organizational, small group, and technological. Special emphasis is placed on how to argue constructively and how to build, refute, support, and critically evaluate arguments across a variety of fields.

### COMM 3430 - Communication in Politics

**Credits:** 3

**Prerequisite(s):** COMM 1010 or permission of instructor

**Description:** This course acquaints students with the complexities of communication issues and strategies used in and by a variety of governmental bodies. This course emphasizes communication patterns in government institutions, the role and strategies of public influence and change on policy creation, the nature and ethics of campaign strategies and propaganda tactics, the responsibility of media in public decision-making, and the impact of communication leadership and group dynamics on the resolution of political and social issues.

### COMM 3510 - Communication and Conflict

**Credits:** 3

**Prerequisite(s):** COMM 1100

**Description:** This course helps individuals develop strategies for maintaining conflict dynamics in communication interactions at work, home, school, and the community. Effort is made to pinpoint individual communication conflict styles and to assess their effectiveness in conflict interactions. Major topic areas include, but are not limited to, the following: defining conflict; theories on conflict management; intrapersonal conflict; interpersonal conflict; approaches to managing conflict; power issues in conflict management.

### COMM 3980 - Internship in Communication Studies

**Credits:** 1-6

**Prerequisite(s):** COMM 1010 and Instructor Approval

**Description:** This course provides students an internship experience working in any one of a broad range of jobs and careers. Student interns' positions and experiences develop communication skills and aptitudes in real-world occupational and organizational settings. Student interns work with both site supervisors and faculty mentors.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### COMM 4100 - Communication Ethics

**Credits:** 3

**Prerequisite(s):** COMM 3100

**Description:** This course identifies key perspectives in communication ethics. Topics include civility, morality/integrity, duty, the self as an ethical agent, organizational ethics, and media ethics. Students apply traditional ethical principles to a variety of communication contexts including interpersonal, small group, team, organizations, and mediated situations.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**Cross Listed Course(s):** HON 4301

### COMM 4120 - Trends in Communication Studies: Variable Topics

**Credits:** 3

**Prerequisite(s):** COMM 1100

**Description:** The purpose of this special topics course is to introduce students to an in depth discussion of issues or research within the field of communication studies.

*Note: The course may be taken for up to 9 credit hours under different titles.*

### COMM 4130 - Debate

**Credits:** 1-3

**Description:** This course focuses on the preparation of students for intramural debates, tournament competition, public exhibition events, and/or related debate activities. It features intensive argument coaching, practice speeches and debates, opportunities for event planning, professional networking (with students, staff, faculty, and civic leaders both on and off campus), and opportunities for special projects associated with the history, theory, pedagogy, and practice of intercollegiate and civic debate. All students at any experience level from novice to expert and any class standing are welcome.

*Note: Course may be repeated for a total of 6 credits.*

### COMM 4310 - Decision Making

**Credits:** 3

**Prerequisite(s):** COMM 2300

**Description:** This course applies organizational communication principles and skills to decision making and problem solving processes in organizational settings. Tools and techniques for identifying and analyzing risk, organizational networks, and strategic response build a communication framework for collaborative decision making. Students apply decision making processes to case studies and simulated environments.

### COMM 4320 - Organizational Communication Consulting

**Credits:** 3

**Prerequisite(s):** COMM 2300

**Description:** Students in this course learn how to consult for planned change and organizational development. The course covers skills and tools for studying, assessing, reporting on, and intervening in organizations' problems and opportunities. Students plan consultation or development projects and practice elements of communication auditing. The course explores career opportunities in professional consulting and organizational development.

### COMM 4330 - Organizational Learning and Development

**Credits:** 3

**Prerequisite(s):** COMM 2300

**Description:** This course develops students' ability to design and deliver effective training sessions and activities for organizational and professional clients. Students address communication issues that trainers face, goal setting and needs assessment practices, delivery and performance, and professional opportunities in organizational

development. Students create original training demonstrations and materials (face-to-face and/or online) in the course.

### **COMM 4410 - Techniques of Persuasion**

**Credits:** 3

**Prerequisite(s):** COMM 2400

**Description:** This course investigates the factors that influence individuals and groups through the media of persuasive rhetorical campaigns. This course involves specific investigation and analysis of twentieth century persuasive campaigns. Students will have opportunities to study and develop persuasive campaigns in various rhetorical areas.

### **COMM 4420 - Freedom of Speech**

**Credits:** 3

**Prerequisite(s):** COMM 2400

**Description:** This course is a study of the historical and social influences with inquiry into the legacy of our inherited rights to free speech. This course examines the first amendment's clause on freedom of speech and the press, threats to this freedom and special inquiry into contemporary issues and cases.

**University Requirement(s):** Senior Experience

### **COMM 4440 - Sports Discourse in Media and Culture**

**Credits:** 3

**Description:** Sports talk has moved off the playing field and into day-to-day discourse in interpersonal, organizational and public communication. This course explores metaphors, mythology, idioms and ideas that emerge from the world of sports and how they impact discourse about gender, community, politics, identity, education, ethnicity, parenting, and organizational life. The role of broadcast media is critically examined for its role in encouraging a cultural dialogue of sports metaphors.

### **COMM 4450 - Social Movement Rhetoric**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or permission of instructor

**Description:** In this course, students examine social advocacy from the communication perspective. Emphasis is placed on communication styles and the premises associated with a social justice sensibility, informed by communication theory and applied communication practices. Students identify a social justice problem in the local community, design an intervention, and engage the community with various communication strategies and techniques. The class combines classroom instruction with coordinated, integrated, and structured volunteer service.

*Note: Some sections of this course may be taught as Service Learning.*

### **COMM 4510 - Mediating Conflict**

**Credits:** 3

**Prerequisite(s):** COMM 3510

**Description:** This course examines conflict as a complex

communication event with an emphasis on developing skills to engage in mediation. Students learn communication theories relevant to the practice of mediation, several approaches to the process of mediation, a dynamic mediation model that can be adapted to a variety of conflict situations, as well as the interpersonal skills necessary to manage the mediation process.

### **COMM 4520 - The Art of Dialogue**

**Credits:** 3

**Prerequisite(s):** COMM 2200 or instructor's permission

**Description:** Students in this course learn and practice the art of dialogue - communication that prioritizes presence, mindfulness, and respect. The course explores the connections between thoughtful, empathic conversation and personal relationships, professional life, and healthy communities. Students apply listening, expression, conflict, and collaboration skills by participating in, designing, and facilitating dialogues.

### **COMM 4810 - Communication Coaching**

**Credits:** 3

**Prerequisite(s):** COMM 1010 and COMM 1100

**Description:** Students in this course develop and practice skills for communication coaching in professional contexts. Using hands-on practice and intensive collaboration, this course prepares students to help others solve problems and build communication skills in their professional lives. The course emphasizes coaching for presentations and teamwork. Students practice trust-building, listening, problem solving, and collaboration to support their own and their clients' growth. This course may be required for students working as peer coaches in the Department of Communication Studies.

### **COMM 4820 - Advanced Communication Coaching**

**Credits:** 1-6

**Prerequisite(s):** COMM 4810 or Instructor Permission

**Description:** In this advanced course, students build experience and expertise as professional communication coaches. They learn how to develop and implement original coaching plans, assess provide constructive feedback on coaches' performance, lead teams, and engage in continuous growth as a communication coach. Advanced skills emphasized include person-centeredness, leadership, and project management. COMM 4810 - Communication Coaching is a prerequisite for this course.

### **COMM 4910 - Applied Communication Research Project**

**Credits:** 3

**Prerequisite(s):** COMM 3110 or Permission of Instructor

**Description:** This capstone course prepares students to conduct applied research as communication professionals or graduate students. Students complete an original research project, applying theory and research learned in prior courses. Students learn and practice methods commonly employed by industry and academic researchers - including textual, interview, and basic statistical techniques.

**University Requirement(s):** Senior Experience

## COMM 4920 - Senior Seminar

**Credits:** 3

**Prerequisite(s):** COMM 3110, COMM 4100 and senior standing

**Description:** This course offers an in-depth exploration of a specific and significant communication issue. Students explore the communication research and theory related to the issue, producing a relevant individual research or professional project related to the seminar's central communication issue.

**University Requirement(s):** Senior Experience

## COMM 4930 - Senior Communication Internship

**Credits:** 3

**Prerequisite(s):** COMM 3110, COMM 4100 and senior standing

**Description:** This course provides students with an opportunity to explore their career interests while applying, within a work setting, the knowledge and skills they have learned from their Communication Studies coursework. Students gain a clearer understanding of how their degree applies to their post-graduate experience, what strengths they still need to develop to enable professional success and provide an opportunity for students to build their professional network. In addition, through the course, students gain practical communication-centric experience within the professional environment, acquire knowledge of the industry in which the internship is done, apply -in a workplace setting- the knowledge and skills learned through their Communication Studies coursework, develop a greater understanding about career options while more clearly defining personal career goals, experience the activities and functions of professionals, develop and refine their communication skills, and identify areas for future knowledge and skill development.

**University Requirement(s):** Senior Experience

## Computer Engineering

### CPE 1040 - Introduction to Engineering

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** This course is an introductory engineering course exposing students to a cross section of topics in computer engineering discipline to assist them with their education career choices. Students are taught to work in teams, introduced to the design process, utilize math and computer programs to analyze raw data and properly display their results in a presentation to their peers. The history of the engineering profession and its relation to current national, social, industrial, ethical, and international issues and problems will be discussed.

### CPE 1140 - DC Circuit Fundamentals

**Credits:** 4

**Prerequisite(s):** MTH 1410, or MTH 2410 (with a grade of "C" or better for all prerequisites)

**Description:** This course covers DC circuit analysis, including mesh analysis, nodal analysis, Thevenin conversion, Norton conversion,

power, magnetism and magnetic circuits, capacitance, and inductance. An introduction to electrical laboratory procedures and the measurement of basic circuit parameters is also included.

### CPE 1150 - AC Circuit Fundamentals

**Credits:** 4

**Prerequisite(s):** CPE 1140 (with a grade of "C" or better for all prerequisites)

**Description:** This course is a continuation of CPE 1140. Studies include single time constant circuits, phasors, and the j operator, RLC circuits with sinusoidal, steady-state sources, impedance and admittance, AC formulation of classic network theorems, complex network equations, complex power, frequency response, transformers, and two-port network models.

### CPE 2145 - Solid State Electronics

**Credits:** 3

**Prerequisite(s):** CPE 1150 or EET 1150, and CHE 1100 or CHE 1800 (with a grade of "C" or better for all prerequisites)

**Corequisite(s):** CPE 2165

**Description:** Students in this course will study the theory, modeling and application of semiconductor based electronic circuits. Devices studied include: diodes, bipolar junctions transistors, MOS field effect transistors, thyristors, voltage regulators and operational amplifiers.

### CPE 2165 - Solid State Electronics Laboratory

**Credits:** 1

**Prerequisite(s):** CPE 1150 or EET 1150, and CHE 1100 or CHE 1800 (with a grade of "C" or better for all prerequisites)

**Corequisite(s):** CPE 2145

**Description:** The student will develop the laboratory skills necessary for integration of electronic devices in applications such as filtering, amplification, and voltage regulation. The student will integrate the lecture content of CPE2145 in the practical, hands-on laboratory exercises developed in this course.

### CPE 2310 - Digital Systems I

**Credits:** 3

**Prerequisite(s):** MTH 1400 (with a grade of "C" or better for all prerequisites)

**Description:** This course covers the analysis and design of logic circuits using Boolean algebra, Karnaugh maps and truth tables. It provides an introduction to the student to the basic concepts of computer architecture. In addition, it covers number systems, operation and codes. Combinational digital circuits are also studied. The students will use the basic logic gates, Flip-flop, memories, integrated circuit chips, etc., to design digital systems.

### CPE 2350 - C Programming for Engineer

**Credits:** 3

**Prerequisite(s):** MTH 1400 (with a grade of "C" or better for all prerequisites)

**Description:** This is an advanced-level programming course using the C programming language. Methods for solving computer engineering problems using the C programming language are studied. The fundamental of UNIX Operation System and shell scripts are also introduced.

### CPE 3330 - Digital Systems II

**Credits:** 3

**Prerequisite(s):** CPE 2310 with a grade of "C" or better

**Description:** This course is a continuation of CPE 2310. It covers the analysis and design of sequential (counters and shift registers) logic systems. Programmable Logic Devices (PLD) and associated Computer Aided Design (CAD) software are used to implement digital circuits by using the schematic design entry method. Johnson counter and Ring counter are studied. The general methods of analysis and design for Finite State Machine (FSM) is also introduced.

### CPE 3400 - Signals and Systems

**Credits:** 3

**Prerequisite(s):** CPE 1150, CPE 2310, and MTH 2410 (with a grade of "C" or better for all prerequisites)

**Description:** This course provides an introduction to the student to the basic concepts of signals and system modeling. The students will develop and understand time-domain and frequency-domain analysis of both continuous and discrete systems and signals.

### CPE 3500 - Semiconductor Device Fundamentals

**Credits:** 3

**Prerequisite(s):** CPE 2145, CPE 2165, CHE 1100 and CHE 1150 (with a grade of "C" or better for all prerequisites)

**Description:** This course will provide the fundamental knowledge of semiconductor physics, materials, devices and fabrication technology. The students will learn semiconductor band theory, semiconductor materials and statistics, pn junction, bipolar transistor, heterojunction, Schottky junction and solar cells. The course will focus on the MOSFET designs for advanced Very Large Scale Integrated Circuit (VLSI) technology from its physical structure, accurate modeling, manufacturability and applications by using computer simulation.

### CPE 3620 - A&D Communications

**Credits:** 3

**Prerequisite(s):** CPE 2145, CPE 2165 and MTH 2410 (with a grade of "C" or better for all prerequisites)

**Description:** This course is an introduction to communication systems. Topics include: information theory, channel capacity, A/D and D/A techniques, modulation (AM, FM, and digital), noise sources, quantization, and transmission lines including Smith Charts.

### CPE 3715 - Control Systems Analysis

**Credits:** 4

**Prerequisite(s):** CPE 2145 and CPE 3400 (with a grade of "C" or better for all prerequisites)

**Description:** This course analyzes classical, linear, continuous-time control systems. Analysis and design will be done using Laplace transforms, Bode plots. Topics discussed include: stability, transient response, steady-state response, and the design of P, PI, PD, and PID, Lag and Lead compensators. The laboratory section of the course uses the classical approach to the analysis and design of control systems.

### CPE 3980 - Internship in Computer Engineering

**Credits:** 2

**Prerequisite(s):** Major in Computer Engineering; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Note: Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### CPE 4020 - Digital Circuits III - Hardware Description Language

**Credits:** 3

**Prerequisite(s):** CPE 2350 and CPE 3330 (with a grade of "C" or better for all prerequisites)

**Description:** Students in this course will learn a Hardware Description Language (HDL) which is used to design and simulate very large scale digital integrated circuits. Different modeling and design approaches will be covered as well as different simulation techniques.

### CPE 4320 - Digital Filter Design

**Credits:** 3

**Prerequisite(s):** CPE 2350 and CPE 3400 (with a grade of "C" or better for all prerequisites)

**Description:** This course introduces digital filters as applied in digital signal processing and sampled data control systems. Complex algorithms will be introduced for the design of digital filters.

### CPE 4330 - Data Communication

**Credits:** 3

**Prerequisite(s):** CPE 2310 with a grade of "C" or better

**Description:** This course covers methods of local and distant digital communications including: systems, standards, and hardware used for transmitting digital data either synchronously or asynchronously. In addition, limitations and problems will be discussed along with the solutions and areas that are being improved.

### **CPE 4370 - Embedded System Design I**

**Credits:** 3

**Prerequisite(s):** CPE 2350 and CPE 3330 (with a grade of "C" or better for all prerequisites)

**Description:** This class will explore the fundamentals of embedded system hardware and firmware design. The following issues will be discussed, such as embedded processor selection, hardware/firmware partitioning, number conversion, computer hardware structure, memory technology, logic circuits, development tools, firmware architecture, firmware design, and firmware debugging. An industry standard microcontroller will be studied, and its architecture and instruction set will be covered. The students will apply a microcontroller demo board for their designs. The programming will be implemented in *Assembly* and C languages.

### **CPE 4390 - Embedded System Design II**

**Credits:** 3

**Prerequisite(s):** CPE 4370 (with a grade of "C" or better for all prerequisites)

**Description:** This course is a continuation of CPE 4370 and will cover embedded system design by interfacing with computers, peripherals, and other digital circuits. It provides the knowledge of designing microcontroller-based embedded computer systems by using assembly and C programs. In addition, the course will also examine the Real-time Operating Systems and their impact on performance. Computer engineering applications will also be emphasized.

### **CPE 4600 - VLSI Circuits and Systems**

**Credits:** 3

**Prerequisite(s):** CPE 3500 and CPE 4020 (with a grade of "C" or better for all prerequisites)

**Description:** This course will explore the fundamentals of Very Large Scale Integrated Circuit (VLSI) design. The following design specifications will be addressed, such as functionality, performance, reliability, manufacturability, testability, cost, design layout rules and checking, circuit extraction, simulation, and verification.

### **CPE 4620 - Advanced Communication Systems**

**Credits:** 3

**Prerequisite(s):** CPE 3620 (with a grade of "C" or better for all prerequisites)

**Description:** This is a senior research course which requires student analysis of VHF, UHF, microwave, spread spectrum, optical, video, and satellite systems. Analog and digital cellular and personal communications services, including AMPS, GSM, CDMA, wireless LAN microwave satellite communications systems will be examined.

### **CPE 4700 - Senior Design I**

**Credits:** 1

**Prerequisite(s):** CPE 4370 and CS 2400 (with a grade of "C" or better for all prerequisites), senior standing

**Description:** This is a Senior Experience, capstone course designed

to teach engineering design skills to students through project based learning. The course will focus on team project incorporating the application of fundamental engineering knowledge and skills. Projects requires planning and design in consultation with faculty advisors and industry contacts. Through this course the students will learn the design process in a hands on way through conceptualization, construction, testing and presenting a deliverable project.

**University Requirement(s):** Senior Experience

### **CPE 4710 - Digital Control System Design**

**Credits:** 4

**Prerequisite(s):** CPE 3715 (with a grade of "C" or better for all prerequisites)

**Description:** Students in this course will learn the process and theory of the design of digital control systems, using classical and modern control theory. Analysis of differences between continuous and discrete control systems will be discussed. State variable feedback control and other optimal control theories will be covered.

### **CPE 4800 - Senior Design II**

**Credits:** 2

**Prerequisite(s):** CPE 4390, CPE 4600 and CPE 4700 (with a grade of "C" or better for all prerequisites)

**Description:** This is the second half of the Senior Experience for this major. In this course, the student completes the project started in CPE 4700. The project is built, tested and demonstrated. Written technical reports and oral presentations on the project are required. Part of this course involves the student working with a faculty member who acts as a consultant.

**University Requirement(s):** Senior Experience

## **Computer Information Systems**

### **CIS 1005 - Surviving and Thriving in the E-World**

**Credits:** 3

**Description:** This course emphasizes using the Internet and online resources to collect, understand, evaluate, and validate information relating to basic computer literacy and emerging technologies. Using different search terms and search engines, students will find information that describes computer hardware, software, information systems, Web 2.0, and big data, among other information technology topics. They will prepare brief abstracts and ratings of information gathered. Additionally, students will learn to use Word, Excel, and PowerPoint to prepare reports and business documents. This course does not serve as a pre-requisite for CIS 2010.

### **CIS 1010 - Introduction to Computers**

**Credits:** 3

**Description:** This course is designed for students who wish to use a microcomputer in their academic pursuits and their career. The student will learn how to use a personal computer with application software featuring word processing, spreadsheets, file management, graphics, electronic communications, and thesaurus/spelling checker. This course also reviews the historical, societal, ethical, and

technological aspects of computers.

*Note: Credit will be granted for only one prefix: CIS or CSS.*

**Cross Listed Course(s):** CSS 1010

### **CIS 1080 - The World Wide Web, the Internet, and Beyond**

**Credits:** 3

**Description:** This course is for anyone who uses or wants to access the World Wide Web or use the Internet. Students will master a set of basic skills including using electronic mail, logging-in to remote computers, obtaining online documents and software, and using a browser like Netscape to search and explore the World Wide Web for information. Students will also learn the fundamentals of Web page construction.

*Note: Credit will be granted for only one prefix: CIS or CSS.*

**Cross Listed Course(s):** CSS 1080

### **CIS 1985 - Introduction to Business Careers Internship**

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.

*Note: Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** ACC 1985, BNK 1985, ECO 1985, FIN 1985, MGT 1985, MKT 1985

### **CIS 2010 - Foundations of Information Systems**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies in Oral Communication; ENG 1020 or ENG 1021; and CIS/CSS 1010 with a grade of "C-" or better, or appropriate score on the Computer Information Systems computer literacy screening test.

**Prerequisite(s) or Corequisite(s):** Completion of or enrollment in a course that meets the Quantitative Literacy requirement.

**Description:** This course is an introduction to information systems from a business perspective. It introduces students to computer hardware and software, use of productivity tools and the Internet to solve business problems, and an introduction to fundamental and functional business information systems.

*Note: This course is primarily intended for students with majors in the College of Business. Credit will be granted for only one prefix: CIS or HON.*

**Cross Listed Course(s):** HON 2011

### **CIS 2110 - Structured Problem Solving in Information Systems**

**Credits:** 3

**Prerequisite(s):** CIS 2010

**Description:** This is a problem-solving course in which the tools of structured design are used to design computerized solutions to business problems. Techniques of procedural programming languages are used to implement these designs. Emphasis is placed on the implementation of the three logic constructs in procedural languages: sequence, selection, and iteration. Students will be

required to develop, test, and debug programs in one or more languages, using a variety of hardware and operating system platforms.

### **CIS 2300 - Business Statistics**

**Credits:** 3

**Prerequisite(s):** MTH 1320

**Description:** This is a course in the application of statistical inference and translation of quantitative data into information which can be used in business decision-making. This course will cover the topics of descriptive statistics, probability theory, probability distributions, sampling distributions, point estimates, confidence intervals, and tests of hypotheses, in the context of management decision-making skills needed by industry.

### **CIS 2500 - Security Essentials**

**Credits:** 3

**Prerequisite(s):** CIS 2010

**Description:** This course is designed to teach the principles and practices that all computing users need to keep sensitive information secure, both at work and at home. By introducing students to security theory and presenting best practices, the course will show students both the importance of protecting data and the associated techniques. Topics covered include how to secure systems, protecting personal data, organizational resources, securing computer networks, how to handle risks and ethical dilemmas, computer crime, policies and laws, and how to implement safe Internet usage. This course is not intended for CIS and CYB majors.

### **CIS 3030 - Business Web Page Development**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** This is a course in business Web page development. Specifically, the student will learn how to plan the development of a Web site, compose Web site specifications, apply coding to the development of any kind of Web site, and find and use development resources. The student will use a leading code-centric text editor to aid in all course Web page development projects. The student will also be introduced to a leading graphical editing tool for supplemental use.

### **CIS 3050 - Fundamentals of Systems Analysis and Design**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** This course covers the basic concepts of an information system and systems analysis tools and techniques necessary to develop requirements for a business information system. Students will concentrate on systems analysis using current methodologies, technologies, and available tools of analysis, as well as an examination of the effect on systems analysis by business drivers such as globalization, security, privacy, ethics, and collaboration. The course will focus on the analysis phase including requirements definition, modeling, feasibility, project planning and management, and documentation.

### **CIS 3060 - Database Management Systems**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** This course provides an introduction to the design, development, implementation, and manipulation of databases. Students will create information level database designs from a set of user requirements and implement those designs employing a 4GL database tool. Students will also be introduced to distributed database management, concurrency control, data warehousing, and data mining.

### **CIS 3145 - Business Application Development**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** This course uses a high-demand programming language for the development of object-oriented, event-driven Graphical User Interface (GUI) business applications. Students create stand-alone solutions for business problems and complete a final multi-window application project with database support.

### **CIS 3220 - Analysis of Hardware, Software, and User Interfaces for Microcomputer Platforms**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** The course develops a conceptual understanding of the underlying principles of computer systems hardware, operating systems software and associated use interfaces. These concepts are then applied to the problem of selecting and implementing microcomputer based systems to solve appropriate business problems.

### **CIS 3230 - Telecommunication Systems and Networking**

**Credits:** 3

**Prerequisite(s):** CIS 2110

**Description:** This course provides a comprehensive coverage of telecommunications and networking. Physical characteristics such as media and signaling are covered, as well as internetworking concepts and Transmission Control Protocol/Internet Protocol (TCP/IP). The material is discussed using the Open Systems Interconnection (OSI) and TCP/IP models as a framework.

### **CIS 3270 - Advanced Computer Applications for Business**

**Credits:** 3

**Prerequisite(s):** CIS 2010

**Description:** This is a software solutions microcomputer course that teaches problem solving at the business operational level using advanced applications of word processing, presentation graphics, electronic spreadsheets, and database management. Hands-on practice with the advanced Microsoft application suite and computer-based examinations are included.

### **CIS 3280 - LAN and WAN Systems for Business**

**Credits:** 3

**Prerequisite(s):** CIS 3230

**Description:** This course presents the technology, architecture, and interconnection of Local Area Networks and Wide Area Networks. The advantages and disadvantages of each technology will be discussed so that well-informed decisions can be made regarding the design of communication networks.

### **CIS 3290 - Operating Systems for End Users**

**Credits:** 3

**Prerequisite(s):** CIS 2010 and CIS 2110

**Description:** This is an end-user-oriented microcomputer operating systems course which teaches advanced concepts of the most popular operating systems, both networked and stand-alone. The course includes instruction in theory plus hands-on experience with each operating system.

### **CIS 3300 - Business Analytics I (Descriptive and Predictive)**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; completion of General Studies requirements in Oral Communication; C- or better in MTH 1320 or MTH 1410; CIS 2010 or CIS 2300; and at least junior standing.

**Description:** This business analytics course introduces the student to descriptive analytics and predictive analytics. Techniques include the applications of statistical inference and the translation of quantitative data into information that can be used in business decision making. This course covers the topics of frequency distributions, descriptive statistics, probability distributions, sampling distributions, point estimation, confidence interval estimation, hypothesis testing, analysis of variance, chi-square analysis, regression analysis, model building, and data mining. A specific statistical package is required.

### **CIS 3310 - Business Forecasting Methods**

**Credits:** 3

**Prerequisite(s):** CIS 3300 and Junior Standing

**Description:** This course introduces the student to both quantitative and qualitative forecasting techniques used in the public and private sectors. Software packages are used to perform the calculations for the quantitative forecasting techniques. Much emphasis is placed on real-world case problems.

### **CIS 3320 - Business Analytics II (Prescriptive)**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; completion of General Studies requirements in Oral Communication; "C-" or better in MTH 1320 or MTH 1410; CIS 3300; and at least junior standing.

**Description:** This business analytics course introduces the student to prescriptive analytics that can be used in the business decision-making environment. The management science techniques presented and studied include linear programming, project scheduling, inventory models, decision analysis, queuing theory, simulation, and forecasting in the context of managerial decision-making skills.

Emphasis is placed on the use of software to solve real-world problems.

### **CIS 3340 - Advanced Business Statistics**

**Credits:** 3

**Prerequisite(s):** CIS 2300

**Description:** This course is a study of advanced statistical methods and techniques and their application in business decision-making situations. This course will cover the following topics: inferences about population variances, tests of goodness of fit and independence, analysis of variance, experimental design, simple linear regression, multiple regression analysis, regression model building, forecasting, and nonparametric methods.

### **CIS 3350 - Knowledge Discovery and Data Mining**

**Credits:** 3

**Prerequisite(s):** CIS 3300 and at least junior standing

**Description:** This course provides students with a theoretical and practical understanding of data mining concepts and techniques; and hands-on experience in applying these techniques to practical real-world business problems using commercial data mining software. As an applied course, the emphasis is on application and interpretation of various data-mining methods using business cases and data rather than on mastering the theoretical underpinnings of the techniques.

### **CIS 3460 - Data Warehousing and Mining**

**Credits:** 3

**Prerequisite(s):** CIS 3300 and CIS 3060 or ACC 3300

**Description:** This course covers the concepts of data warehousing and data mining, and how they are used to convert data into strategic business information. It discusses the design, architecture, planning, and project management of a data warehouse. Data mining techniques (classification, association, genetic algorithms, machine learning, etc.) are discussed as a way to discover useful relationships among data.

### **CIS 3490 - Managing Business Information with Enterprise Systems**

**Credits:** 3

**Prerequisite(s):** CIS 2010

**Description:** Students gain an understanding of the theoretical and practical issues of Enterprise Resource Planning (ERP) systems used within organizations. The course demonstrates how ERP systems integrate information and organizational processes across functional areas with a unified database, best practices and shared operating tools. Students will configure a running ERP system (e.g. SAP), execute transactions and produce reports for supporting common business processes and business information management. Students will be able to evaluate how ERP systems enable firms to operate their business processes effectively and efficiently. Students also learn to model, assess and improve processes through practical work and by analyzing case studies.

### **CIS 3500 - Information Systems Security**

**Credits:** 3

**Prerequisite(s):** CIS 3230

**Description:** This course covers a broad range of topics in security for networked and internetworked computer systems. It examines security and integrity objectives in terms of high-level policy and presents security services used to address those requirements. Network security architectures are analyzed to insure that critical security functions are protected from unauthorized access and modification. Access control in networked systems is examined.

### **CIS 3980 - Internship in Computer Information Systems**

**Credits:** 1-15

**Prerequisite(s):** Major in computer information systems (with 15 credit hours of CIS coursework completed toward the major); junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **CIS 4030 - Web Site Administration**

**Credits:** 3

**Prerequisite(s):** CIS 3030

**Description:** This course presents the fundamentals of organizing and administering a business Web site with multiple clients. Students will learn how to design effective, business-oriented Web pages. They will be able to give advice to the users, describe how to put Web pages on a server, how to organize the published information, how to plan a business Web site, specify the hardware, choose the daemon, and install and configure a server. In addition, the course will cover the security issues of the internet access, the different protection techniques, how to maintain a site, content and interpretation of the log files, and tools and techniques required to run an effective business site.

### **CIS 4050 - Systems Analysis and Design**

**Credits:** 3

**Prerequisite(s):** CIS 3050, CIS 3060, CIS 3145, CIS 3230, CIS 3500, and Senior standing

**Description:** This course focuses on the development of business systems. The emphasis of this course is on the design and prototyping phases of systems development using as a basis the concepts of problem solving, requirements specification, analysis, and programming from the prerequisite courses. Current methodologies and technologies will be evaluated and implemented in the development process. Information systems problems will be analyzed and alternative solutions will be proposed using design models, a solution will be selected, and a prototype will be constructed for that

solution. Students will evaluate the system using tests they developed and then propose a plan for implementation, maintenance, and training for the system.

**University Requirement(s):** Senior Experience

### **CIS 4060 - Advanced Database Management Systems**

**Credits:** 3

**Prerequisite(s):** CIS 3060 and CIS 3145

**Description:** This course builds upon the design and implementation concepts taught in the introductory database course. The course introduces the student to advanced topics, technologies and emerging trends in the management of modern database systems. The course includes advanced SQL querying procedures and the use of PL/SQL to provide a basis for developing end-user applications. A rapid application tool such as Oracle's Application Express (APEX) will be used to create prototypes of end-user applications.

### **CIS 4160 - Advanced Programming Seminar**

**Credits:** 3

**Prerequisite(s):** CIS 3060 and CIS 3145

**Description:** This course addresses advanced language techniques and their application to Information Systems problems. It discusses the appropriateness of certain languages and programming techniques.

### **CIS 4260 - Database Administration**

**Credits:** 3

**Prerequisite(s):** CIS 3060

**Description:** This course covers the functions and responsibilities of the Database Administrator (DBA) in an organization with an integrated, shared Relational Database Management System (RDBMS). The course will focus on the technical requirements of the DBA including enrolling new users, creating the database, backup and recovery of data, security measures, implementing data integrity, and tuning the database.

### **CIS 4280 - Network Installation and Administration**

**Credits:** 3

**Prerequisite(s):** CIS 3230

**Description:** This course presents the knowledge and skills necessary to install the network operating system and to perform competently in the role of a network administrator.

### **CIS 4281 - Network Installation and Administration with UNIX/Linux**

**Credits:** 3

**Prerequisite(s):** CIS 3230

**Description:** This course presents information and skills necessary to begin to perform competently in the role of a network/systems administrator in a Linux/UNIX environment including installation, configuration, and management of the operating system.

### **CIS 4370 - Data Science and Big Data Analytics**

**Credits:** 3

**Prerequisite(s):** CIS 3300, CIS 3460, and at least junior standing

**Description:** This course will cover the concepts of big data and data analytics used to solve business problems. Project management of data analytic activities will be introduced as part of the data analytic life cycle. The analytic life cycle starts with data discovery and preparation, which leads to the analytical methods of categorization, regression, and classification. Finally the results of the analytical steps are operationalized in order to benefit an organization.

### **CIS 4410 - Management Information Systems**

**Credits:** 3

**Prerequisite(s):** CIS 2010

**Description:** This course provides an overview of management information systems, managerial decision making practices and styles, and requisite information needs. International information concepts, the influence of national cultures on decision making, information use, and on various system design approaches are examined. The course addresses the practical aspects of the development of management information systems and decision-support systems.

### **CIS 4500 - Information Systems Security Tools and Techniques**

**Credits:** 3

**Prerequisite(s):** CIS 3500 and junior or senior standing

**Description:** This course covers tools and techniques that allow system administrators to protect organizational resources in a networked environment. It looks at design considerations, organizational policies, and industry best practices in all areas of security, reviews countermeasures to mitigate weaknesses, and introduces tools that can monitor, analyze, and visualize network activities for potential threats.

### **CIS 4550 - Information Systems Security Management and Information Assurance**

**Credits:** 3

**Prerequisite(s):** CIS 3500

**Description:** This course covers the broad fields of enterprise security and privacy, concentrating on the nature of enterprise security requirements by identifying threats to enterprise information technology (IT) systems, access control, and system and product evaluation criteria. Risk management and policy considerations are examined with respect to the complex nature of enterprise security as represented by government guidance and regulations to support information confidentiality, integrity and availability. The course develops the student's ability to assess enterprise security risks and to formulate recommendations in the areas of data and application protection, access control, policies, and regulation compliance and governance.

### **CIS 4920 - Health Care Information Systems Internship**

**Credits:** 3

**Prerequisite(s):** Minimum of twelve (12) semester hours of upper-division courses from CIS or HCM courses listed in the HCIS Major

curriculum, all with a grade of "C" or better, or permission of instructor

**Description:** This capstone course provides students with the opportunity to integrate and operationalize previously learned health care management and computer information systems knowledge and skills in a field experience specific to the health care information systems discipline. The internship provides an opportunity for students to learn firsthand about working with others in a professional setting. Students complete projects using or working with health care information system applications in a health-related organization.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Credit will be granted for only one prefix: CIS or HCM.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HCM 4920

## Computer Science

### CS 1030 - Computer Science Principles

**Credits:** 4

**Description:** Computer Science Principles introduces students to the central ideas of computer science vital for success in today's world. Students are invited to develop the computational thinking skills that apply across disciplines, as we explore computing from multiple perspectives, including: *cognitive, economic, ethical, legal, mathematical, philosophical, social, and technical*. The course integrates computational thinking practices with big ideas in computing to address: *collaborative teamwork, communication, creativity, critical thinking, innovation, problem solving, and programming*. Students are afforded the opportunity to participate in active-learning experiences and to create computational artifacts that bring ideas to life.

### CS 1050 - Computer Science 1

**Credits:** 4

**Prerequisite(s):** CS 1030 with a grade of "C-" or better, or readiness for MTH 1110, or permission by instructor

**Description:** This is the first course in the computer science core sequence. Students learn a modern programming language and the basic skills needed to analyze problems and construct programs for their solutions. The emphasis of the course is on the techniques of algorithm development, correctness, and programming style. Students are also introduced to the fundamentals of software engineering and the software-development life cycle.

### CS 1400 - Computer Organization 1

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics pre-assessment placement test or higher-level math course with a grade of "C" or better

**Description:** In this course, students will study the internal organization, characteristics, performance and interactions of a computer system's functional components. Binary codes and binary arithmetic, digital logic, central processor organization, instruction set architecture, input/output fundamentals, and memory architecture are covered.

### CS 2050 - Computer Science 2

**Credits:** 4

**Prerequisite(s):** CS 1050 and MTH 1110 (or equivalent) with a grade of "C" or better, or permission of instructor

**Description:** This course, a continuation of CS 1050, further emphasizes the concepts of the software development cycle and introduces the concept of an abstract data type (ADT). The topics covered include linked-lists, trees, stacks, queues, classes, recursion, and a variety of data representation methods. Further topics in software engineering and programming style as well as algorithms for sorting and searching are included.

### CS 2240 - Discrete Structures for Computer Science

**Credits:** 4

**Prerequisite(s):** (((MTH 1110 or equivalent) AND MTH 1120) OR MTH 1400) AND CS 2050) all with grades of "C-" or better) OR permission of instructor

**Description:** This course provides a solid theoretical foundation for the understanding of computer science, with emphasis on the application of formal structures and reasoning to problems in computer science. The course introduces and demonstrates application of discrete mathematics concepts commonly used in computer science and needed to solve many computational problems. Topics include formal logic systems, Boolean algebra, techniques for formal reasoning (including proof methods), set theory, graph theory, functions, relations, sequences, and recursive structures.

### CS 2400 - Computer Organization 2

**Credits:** 4

**Prerequisite(s):** CS 1050, CS 1400, and MTH 1110 (or equivalent), each with a grade of "C-" or better, or permission of instructor

**Description:** The course presents the functional organization of computers, multicore and multithreaded processors, high-performance storage, multiprocessor and multicomputer parallel architectures, and error detecting/correcting codes. Students learn assembly language programming and create software using a contemporary development environment.

### CS 3010 - Code Reading

**Credits:** 4

**Prerequisite(s):** CS 2050

**Description:** Code reading skills are an essential part of every software engineering project. This course develops multiple approaches for reading both small and large programs, in multiple languages and paradigms, and provides varied experience in reading real-world code. Students learn to extract the structure and logic of a

program, understand the semantics, and find and correct errors. New languages are investigated through reading.

### CS 3013 - Software Development for Mobile Devices

**Credits:** 4

**Prerequisite(s):** CS 2050 with a grade of "C" or better, or permission of instructor

**Description:** Mobile-device programming must address issues related to the characteristics of each device. The mobile device might have a small screen; limited memory; no hard drive; multiple radios; effectors such as vibrator, sound, and light; use a multi-touch interface; and incorporate hardware sensors, such as GPS, accelerometer, gyroscope, compass, and camera. In this course, students investigate issues involving mobile platforms and develop software for mobile platforms using multiple programming technologies.

### CS 3120 - Machine Learning

**Credits:** 4

**Prerequisite(s):** CS 2050 or MTH 2520, MTH 2140 or MTH 3130 or MTH 3140, and MTH 3210, each with C- or better, or permission of instructor.

**Description:** Machine learning is the ability of computers to learn without explicitly programming an algorithm. Machine learning techniques learn about hyper-dimensional spaces with either explicit direction or implicit reinforcement. This course covers a variety of machine learning techniques and their application to actual data. Topics include the clustering of data and the retrieval of related data, the use of machine learning for recommender systems, and the creation of deep learning systems. This course includes both the underlying theory of machine learning and the creation of machine learning software for real-world problems.

### CS 3140 - Human-Computer Interaction

**Credits:** 4

**Prerequisite(s):** CS 2050 with grade of "C" or better, or permission of instructor

**Description:** This course explores and develops knowledge that enables computer scientists to improve human-computer interaction through the exploitation of cognitive science theories about how people interact with their environments. Topics include: how people interact with each other and with computers; insights provided by models of cognition, memory, perception, attention, and thought; defining, specifying and assessing usability; and the roles of computer interface elements and behaviors. Students will examine theories and use interactive computer systems as the vehicles for the study of human-computer interaction and design for usability. Students will evaluate the effectiveness of existing interfaces and will experiment with authoring their own.

### CS 3150 - Digital Image Processing and Computer Vision

**Credits:** 4

**Prerequisite(s):** CS 2050 with grade of "C-" or better and CS 1400 with grade of "C-" or better, or permission of instructor

**Description:** This course presents fundamental concepts and techniques in digital image processing and computer vision. Both theoretical material and computing techniques are introduced. The analytical tools and methods which are currently used in digital image processing and computer vision are introduced and applied to practical applications. Basic digital computing knowledge and programming skills are reinforced by solving real world problems.

### CS 3210 - Principles of Programming Languages

**Credits:** 4

**Prerequisite(s):** CS 2050, CS 2400, CS 3240, CS 3250, and CS 2240, or permission of instructor

**Description:** This course traces the evolution of programming languages and identifies and analyzes the contributions made by several significant languages and their successors. Specific issues of programming language implementation such as creation of activation records for block structured languages and static and dynamic scoping as methods for defining program object visibility are studied in depth. All four of the modern programming language paradigms (procedural, functional, object-oriented, and logical) are studied.

### CS 3240 - Introduction to the Theory of Computation

**Credits:** 2

**Prerequisite(s):** CS 2050 and CS 2240 each with a grade of "C-" or better, or permission of instructor

**Description:** This course explores these foundations of computing and computer science: languages, computability, and complexity. Types of languages are identified by their expressive power and how they are represented and implemented. Explorations of computability and complexity provide definitive means for determining whether or not a given problem can be solved at all, and if so, how easy or difficult it is to solve.

*Note: Credit will be granted for only one prefix: CS or HON.*

**Cross Listed Course(s):** HON 3240

### CS 3250 - Software Development Methods and Tools

**Credits:** 4

**Prerequisite(s):** CS 2050, ENG 1020, and COMM 1010 with a grade of "C" or better.

**Description:** This course introduces the basics of large-scale software development. As software size increases, so does the need to use appropriate tools and development techniques. The phases of traditional software development and several current software development lifecycles are introduced. The use of object-oriented techniques for large projects is covered. Creating appropriate and sufficient tests for test-driven and behavior-driven development is discussed. Students learn how to analyze their programs to detect errors and increase performance. The various types of automation used in creating a product are introduced. Students learn about group dynamics and work on a significant project in groups.

### CS 3280 - Object-Oriented Software Development

**Credits:** 4

**Prerequisite(s):** CS 2050 with a grade of "C" or better, or permission

of instructor

**Description:** This is an upper-division software development class that focuses on the object-oriented programming paradigm. Object-oriented analysis, design, and development will be explored in some depth with emphasis on object definition, abstraction, polymorphism, encapsulation, and inheritance. Abstract class definitions are developed for a number of common objects and data structures and derivative classes and subclasses are developed from these definitions. Students will develop a thorough understanding of an object-oriented programming language such as C++ or Smalltalk.

### CS 3350 - Free and Open Source Software

**Credits:** 4

**Prerequisite(s):** CS 2050

**Description:** The source code for Free and Open Source Software (FOSS) is available to others to view, copy, learn from, alter, or share. This course delves into the FOSS movements addressing: advantages and disadvantages of open source; open source licensing models; collaborative public development; common and best practices; and, how to contribute to FOSS projects. During the course, students actively investigate, engage with, and have guided opportunities to contribute to established FOSS projects.

### CS 3400 - Computer Architecture

**Credits:** 4

**Prerequisite(s):** CS 2050 and CS 2400 with grades of "C" or better, or permission of instructor

**Description:** Computer architecture concepts are extended to include advanced architectural concepts based on the quantitative analysis and evaluation of modern computing systems. These include advanced instruction set architecture designs, multilevel and set associative caches, advanced pipelining, out-of-order processors including superscalar and VLIW techniques, microprogramming concepts, multiprocessing architectures, advanced memory organizations, input/output, and network-oriented interconnections.

### CS 3410 - Embedded Systems

**Credits:** 4

**Prerequisite(s):** CS 2050 and CS 2400 each with a grade of "C" or better, or permission of instructor. (CS 3600 is recommended.)

**Description:** This course presents the basics of embedded systems design, including computer architecture, custom designed digital devices, and software development principles. Design principles of hardware architecture are based on performance analysis and modeling of the embedded system structure. Students learn the organization of the processors, memory hierarchy, input/output peripherals and the interface with sensors and actuators. Software development is oriented to case studies from selected embedded application domains.

### CS 3510 - Computer Graphics

**Credits:** 4

**Prerequisite(s):** CS 2050 with a grade of "C" or better, MTH 1410,

and either MTH 2140 or MTH 3140, or permission of instructor

**Description:** This course is an introduction to computer graphics. It covers the mathematical background, algorithmic concepts, and software tools required to model a 3D scene with polygon meshes and interpolating surfaces, with lighting and materials and texture mapping, and then to render that scene at interactive speeds, using an appropriate graphics library, such as OpenGL, with shader programming.

### CS 3600 - Operating Systems

**Credits:** 4

**Prerequisite(s):** CS 2050, CS 2400, and CS 3250, all with grades of "C" or better; or permission of instructor

**Description:** This course provides an introduction to modern computer operating systems, their use, design, development, and implementation. Topics covered include: operating system modes, structuring methods, process and thread scheduling and dispatch, concurrency, inter-process communication, memory management, file system organization (in both stand-alone and networked environments), and system security. Students are required to write programs that implement some operating system functions.

### CS 3700 - Computer Networks

**Credits:** 4

**Prerequisite(s):** CS 1400 and CS 2050 with grades of "C" or better, or permission of instructor

**Description:** This course provides a comprehensive study of computer networks, from the physical aspects to the high-level application protocols with which most people interact. The software that provides the communication is emphasized. The methods for creating connections, making sure they are error-free and in order, performing routing, and creating client/server interactions are discussed.

### CS 3710 - Web Application Development

**Credits:** 4

**Prerequisite(s):** CS 2050 with a grade of C- or better

**Description:** Modern web application frameworks encompass many different technologies to allow for the rapid prototyping, development, testing, and deployment of fully-functional web applications. These applications also allow use on various platforms including traditional computers, tablets, and smart phones. This course introduces students to the development of the various parts of a modern web application.

### CS 3750 - Computer and Network Security

**Credits:** 4

**Prerequisite(s):** CS 2050 with a grade of "C" or better, and CS 2400 with a grade of "C" or better, or permission of instructor

**Description:** This course will cover how computers are compromised, what one needs to do to build security into every program, how cryptography assists in securing data, how operating systems affect computer security, how networks are secured, and the social and ethical aspects of computer security.

## CS 3810 - Principles of Database Systems

**Credits:** 4

**Prerequisite(s):** CS 2050 and MTH 1410 with grades of "C" or better, or permission of instructor

**Description:** This course covers the principles and methodologies of database design, and techniques for database application development. The topics covered include relational algebra, SQL queries, normalization, entity-relationship model, SQL/Host-language interface, stored procedure, object-oriented databases, and semi-structured databases.

## CS 3980 - Internship in Computer Science

**Credits:** 1-15

**Prerequisite(s):** Major in Computer Science; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

## CS 4000 - Computer System Reliability

**Credits:** 4

**Prerequisite(s):** CPE 3400, CS 2400, CPE 3330 with grade "C" or better

**Description:** The course covers theoretical and practical achievements oriented to make computing reliable and fault tolerant. Errors models are explained that are used both in production and in computer testing. Testing methodologies in production and the structure of the automatic test systems (ATS) are presented. Algorithmic explanation of the error detection and correcting codes is provided. formal definitions and practical measure of reliability, fault tolerance and computer security are described.

*Note: Required calculator: TI-83 (any version)*

## CS 4050 - Algorithms and Algorithm Analysis

**Credits:** 4

**Prerequisite(s):** CS 3240, CS 3250, and 4 additional credits of upper division CS courses all with grades of "C" or better, or permission of instructor. MTH 3210 is recommended.

**Description:** The emphasis of this course is on the design, analysis, and evaluation of efficient algorithms for a wide variety of computing problems.

*Note: Credit will be granted for only one prefix: CS or HON.*

**Cross Listed Course(s):** HON 4050

## CS 4120 - Foundations of Artificial Intelligence

**Credits:** 4

**Prerequisite(s):** CS 3210 with a grade of "C" or better, or permission of instructor

**Description:** This course includes a study of the theoretical foundations of artificial intelligence, including the algorithms and techniques and programming languages used to design and implement intelligent systems. The topics covered include search strategies, resolution theorem proving, rule-based deduction, expert systems architecture, plan-generating systems, analysis of languages, and machine learning. LISP and PROLOG, the most commonly used AI programming languages, will be covered and used for programming assignments.

## CS 4250 - Software Engineering Principles

**Credits:** 4

**Prerequisite(s):** CS 3250, CS 2240, and COMM 1010 or COMM 1100, all with a grade of "C-" or better; or permission of instructor

**Prerequisite(s) or Corequisite(s):** CS 3240 (if corequisite then to be completed in first 8 weeks of semester)

**Description:** Students in this course explore key principles and best practices that support production and delivery of professional quality software. Current professional software engineering techniques are reviewed and applied through an active-learning approach. The awareness and skills developed in this course prepare students for success in professional software engineering endeavors, including the development of quality products and effective interactions with product and project stakeholders.

## CS 4260 - Software Engineering Practices

**Credits:** 4

**Prerequisite(s):** Senior Standing, COMM 1010, CS 3240, CS 3250, CS 3210, CS 4250 with grades of "C" or better, additional 8 upper division CS credits

**Description:** This course continues the software engineering emphasis of CS 4250, Software Engineering Principles. Students work in teams and apply software engineering principles and best practices to the development of real-world projects for which the quality of the software products is significant. Some projects have been solicited from external constituents (industry, non-profit organizations, etc.) with progress evaluated in conjunction with constituent representatives.

**University Requirement(s):** Senior Experience

## CS 4281 - Software Requirements

**Credits:** 3

**Prerequisite(s):** CS 4250 or permission of department

**Description:** This course develops basic competency in software requirements engineering and management. Students gain knowledge and practical experience with the fundamentals of requirements elicitation, explication, validation, management, and assessment.

## CS 4282 - Software Development Management

**Credits:** 3

**Prerequisite(s):** CS 4250 or permission of department

**Description:** This course provides students with exposure to a broad set of principles and practices affecting the success and failure of software development efforts and productivity of teams involved in such efforts. The role and tasks of the software development manager are explored in detail. Note that this course is specific to software development and is not a general management course (see MGT courses).

### CS 4283 - Software Testing and Quality Assurance

**Credits:** 3

**Prerequisite(s):** CS 4250 or permission of department

**Description:** This course exposes the student to the key concepts and practices in software testing and quality assurance. Topics covered include aspects of software quality assurance relevant to all phases of the software life cycle, alternative approaches to software testing, application of current automated tools, standards, and emerging trends.

### CS 4284 - Software Product Engineering

**Credits:** 3

**Prerequisite(s):** CS 4250 or permission of department

**Description:** This course surveys fundamental topics necessary for successful software product engineering, including usability engineering, software configuration management (SCM), and an overview of legal issues for software engineers.

### CS 4285 - Best Practices in Software Development

**Credits:** 3

**Prerequisite(s):** CS 4260 or two of: CS 4281, CS 4282, CS 4283, CS 4284; or permission of department

**Description:** This course exposes the student to current best practices and emerging methodologies in software engineering and software product development. Topics are chosen to reflect the current state of the care and practice. (A typical set of such topics includes: software architecture as a discipline, design patterns, eXtreme Programming, recent technology in security, and aspect-oriented programming.)

### CS 4360 - Senior Experience in Computer Science

**Credits:** 4

**Prerequisite(s):** Senior standing and CS 3210, CS 3600, 8 additional credits of upper-division CS courses, JMP 2610, PHI 3370, and (COMM 1010 or COMM 1100), all with grades of "C-" or better; or permission of instructor

**Description:** This senior-level capstone course reflects a culmination of learning and an opportunity to develop, use, and express domain knowledge and communication ability. Students will identify and engage in semester-long projects that require integration and application of knowledge and skills acquired from work in earlier courses. Some projects may be solicited from constituents within MSU Denver or externally, and progress evaluated in conjunction with constituent representatives.

**University Requirement(s):** Senior Experience

### CS 4520 - Advanced Computing: Variable Topics

**Credits:** 1-4

**Prerequisite(s):** Permission of instructor

**Description:** This course will include further topics in computer science and its applications. Topics will be chosen from analysis of algorithms, compiler design, simulation, artificial intelligence, or other chosen by the instructor.

*Note: This course may be repeated for credit under different titles.*

### CS 4760 - Multimedia Technologies

**Credits:** 4

**Prerequisite(s):** CS 2050, CS 2400, CPE 3400 with grade "C" or better

**Description:** The course addresses the scientific areas related to multimedia (image processing, computer graphics, video processing, speech and audio processing, text processing and networking) to a depth that enables the students to build up a thorough understanding of the technical issues associated with multimedia technologies. Topics cover how to present the different media types in multimedia stream, some theoretical foundations, multimedia standards (JPEG, MPEG), and different types of multimedia applications.

*Note: Required Calculator: TI-83 (Any version)*

## Computer Science Studies

### CSS 1010 - Introduction to Computers

**Credits:** 3

**Description:** This course is designed for students who wish to use a microcomputer in their academic pursuits and their career. The student will learn how to use a personal computer with application software featuring word processing, spreadsheets, file management, graphics, electronic communications, and thesaurus/spelling checker. This course also reviews the historical, societal, ethical, and technological aspects of computers.

*Note: Credit will be granted for only one prefix: CSS or CIS.*

**Cross Listed Course(s):** (CIS 1010)

### CSS 1080 - The World Wide Web, the Internet, and Beyond

**Credits:** 3

**Description:** This course is for anyone who uses or wants to access the World Wide Web or use the Internet. Students will master a set of basic skills including using electronic mail, logging in to remote computers, obtaining online documents and software, and using a browser like Netscape to search and explore the World Wide Web for information. Students will also learn the fundamentals of Web page construction.

*Note: Credit will be granted for only one prefix: CSS or CIS.*

**Cross Listed Course(s):** CIS 1080

### CSS 1247 - Introduction to Programming: Visual Basic

**Credits:** 4

**Prerequisite(s):** CSS 1010, or equivalent knowledge; completion of General Studies requirements in Quantitative Literacy; or permission of instructor.

**Description:** This is an introductory computer programming course

in which the major elements of Visual Basic are taught. Visual Basic is one of Microsoft's versions of Basic and was created to specialize in easy graphical user interface development. It is an object-based programming language with many characteristics of object oriented programming languages. Students will write programs to solve problems selected from a variety of applications.

### **CSS 1510 - Computer Programming: FORTRAN**

**Credits:** 4

**Prerequisite(s):** MTH 1120 or MTH 1400, with a grade of "C" or better

**Description:** This is a first course in computer programming for students in mathematics, science, or engineering, using the FORTRAN language. It includes an introduction to computer applications, program design, testing and debugging.

### **CSS 2751 - Principles of Cybersecurity**

**Credits:** 3

**Prerequisite(s):** CS 1030

**Description:** This course provides a broad overview of cybersecurity. The terminology, approaches, and underlying technologies used in cybersecurity are covered. How computers and networks are attacked, how the attackers benefit, and how to mitigate attacks are addressed. Social engineering, cryptography, and application security are introduced.

### **CSS 2752 - Information Assurance**

**Credits:** 3

**Prerequisite(s):** CIS/CSS 1010 with a grade of "C" or better; or appropriate score on the computer literacy screening test.

**Description:** This course takes a broad, practical view of security - including people, policies and procedures, and technology. While Information Assurance (IA) encompasses the various technologies, it puts them in the context of an organization's overall strategy. It applies risk management techniques to cybersecurity risks. It includes addressing data both at rest and in transit. IA looks at many aspects of an organization's functioning including its legal, regulatory, and national security aspects.

### **CSS 2753 - Network Security**

**Credits:** 3

**Prerequisite(s):** CSS 2751 or permission of instructor

**Description:** This class provides an overview of network security including threat models, web and electronic mail security, network layer security, transport layer security, packet filtering, firewalls, intrusion detection and prevention, and virtual private networks. Both wired and wireless security are covered. Methods for privacy and anonymity are discussed.

### **CSS 2754 - Host Security**

**Credits:** 3

**Prerequisite(s):** CSS 2751 or permission of instructor

**Description:** This course introduces the means for keeping

computers safe. The topics of intrusion detection and protection, protection mechanisms, and auditing are introduced. Specific approaches to anti-virus and -malware protection are discussed. The importance of business continuity including secure backups are covered. More advanced protection mechanisms such as SELinux, AppArmor, EMET, multi-factor authentication, and least privilege are included.

### **CSS 3000 - Computing for Advanced Manufacturing**

**Credits:** 4

**Prerequisite(s):** ENG 1020, MTH 1120, PHY 2010, AMS 1010

**Description:** This course provides a broad overview of computing topics important to all Advanced Manufacturing disciplines. These topics include: algorithms and algorithmic thinking; computer programming; developing software to control robots and perform simulations; fundamental concepts in computer systems, networking, and hardware; human-computer interaction; legal, social and ethical implications of computing; and computer and data security.

### **CSS 3751 - Application Security**

**Credits:** 3

**Prerequisite(s):** CSS 2751 and CSS 2752 or permission of instructor

**Description:** Writing applications so that they are less susceptible to compromise is a critical aspect of cybersecurity. This course explores how applications are compromised and the steps that must be taken to make them more secure. Several different languages and platforms are covered.

### **CSS 3752 - Computer Forensics**

**Credits:** 3

**Prerequisite(s):** CSS 2751 and CSS 2752 or permission of instructor

**Description:** Once a cybersecurity incident has occurred, it must be investigated and reported so that an organization can learn from the incident. This course discusses the various types of evidence, how to analyze that evidence, and when to involve law enforcement. This course includes low-level device analysis including filesystems, flash memory, and mobile devices. The concepts of chain of custody and the protection of evidence while performing effective forensics are covered.

### **CSS 3753 - Computing and Security for Manufacturing**

**Credits:** 3

**Prerequisite(s):** CSS 2751

**Description:** As all aspects of manufacturing have become computerized, it is important that everyone involved become knowledgeable in computing in general and computer security specifically. This course gives an overview of what computing is and how programming is done. It covers how computers are connected to networks and the related networking protocols. It emphasizes manufacturing-specific concerns such as Industrial Control Systems and the Supervisory Control And Data Acquisition (SCADA) technology, protecting intellectual property at all phases, and assuring the software supply chain.

## Construction Project Management

### CPM 1010 - Introduction to Construction Project Management

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** Students are introduced to the study of the full life-cycle concepts that describe the built environment from programming and design to operations and ultimately disposal.

### CPM 1100 - Introduction to Facilities Management

**Credits:** 3

**Description:** In this course students are introduced to the basic concepts that describe the field of facility management and how it can be of value to an organization. In this course students review a leader's role in tactical planning for how to schedule and accomplish daily facility management tasks that support the operation of an organization's facilities.

### CPM 2010 - Facility Management Technology and Software

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** In this course, students are introduced to the application of technology to various types of facilities and built environments. Students will learn how information technology and artificial intelligence are linked to modern building design and how to better choose and implement technological solutions with building needs in mind.

### CPM 3000 - Workplace Safety

**Credits:** 3

**Prerequisite(s):** AMS 1010

**Description:** The course is designed to prepare students to work safely in construction environments and allow the informed supervision of other workers in regard to workplace safety. Emphasis is placed on practical applications of safety theory and hazard specific content. The course also provides Occupational Safety and Health Administration (OSHA) 30 training and Department of Labor (DOL) course completion certification for students taking the course.

### CPM 3020 - Facilities Maintenance and Operations

**Credits:** 3

**Prerequisite(s):** CPM 1010 or CPM 1100 with grades of C or better

**Description:** This course focuses on introducing a student to operations, maintenance, and energy management requirements of various types of facilities and built environments.

### CPM 4950 - Professional Internship

**Credits:** 1-15

**Prerequisite(s):** Junior or Senior standing and completion of the

following AMS Core courses with a grade of "C" or better: AMS 1010, AMS 3010, JMP 2610, CSS 1751, EET 1001, IND 1450 or CET 1215 or MET 1200, MET 1310, MET 2010, MET 3000 and MTH 1120; Or, Junior or Senior standing and the permission of the AMSI Director

**Description:** Students will have an opportunity to gain work experience under the guidance of an industry professional. Students must complete a minimum of 3 credits (45 clock hours per credit hour) cumulatively during their degree program in a placement relevant to their selected CPM concentration. All internship students will also be required to prepare weekly internship reports, complete a self-evaluation survey and a reflective paper at the completion of the placement.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course is variable credit and may be repeated for up to 15 credit hours.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** AMS 4950

## Criminal Justice and Criminology

### CJC 1010 - Introduction to the Criminal Justice System

**Credits:** 3

**Description:** This is an introductory course covering the basic concepts and principles of the criminal justice system. A survey of the discipline, including the police, the law, courts, corrections, theory, and victimology, is examined. This course is required for all criminal justice majors and minors.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### CJC 1450 - Introduction to Corrections

**Credits:** 3

**Description:** This course examines the history of institutional and community based corrections in the United States. The course includes an overview of local, state, and federal corrections. Trends of incarceration and community supervision rates, including the breakdown by race/ ethnicity, gender, and type of offense will be studied.

### CJC 2020 - Research Methods and Basic Statistics for Criminal Justice Professionals

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** This course is an introduction to basic research methods and statistics used in criminal justice research. The course explores quantitative and qualitative methods used to study crime and criminology. This course provides a basic understanding for criminal justice professionals as consumers of applied research findings as

well as lays the foundation for those undergraduates seeking to pursue careers in crime analysis and/or graduate studies.

### **CJC 2050 - American Judicial System**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** This course introduces students to the structure and organization of the American judicial system. The process of court proceedings, including pre-trial, plea bargain, trials, sentencing, and the appeals process, are discussed. The roles of the different "players" in the court process are also discussed, as well as the specialized court movement and other trends in adjudication.

### **CJC 2100 - Criminal Law**

**Credits:** 3

**Description:** This course acquaints students with common law and statutory law crimes, the Model Penal Code, the elements defining crimes and penalties, defenses to criminal accusations, and the definitions and distinctions between criminal and civil law. Students are assigned criminal law readings including appellate court case law and statutory law.

### **CJC 2210 - American Policing**

**Credits:** 3

**Description:** This course provides an introductory examination of law enforcement in the United States, including its historical foundations and emerging issues. The relationship between law enforcement and the community serves as the context within which the challenge of responding to society's multiple and changing public safety needs are addressed. Law enforcement agencies, their administrative practices, and the behaviors of those involved in the delivery of police services are examined from the perspective of democratic values, racial and ethnic diversity, and societal perceptions of police effectiveness.

### **CJC 2500 - Criminal Investigation**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students in this course will define and explain the relationship between law enforcement and the investigative process. These investigative processes will be further analyzed in the context of defining and categorizing criminal behavior alongside the increased need for technological advances. Law enforcement agencies and their evolving techniques will also be examined from the perspective of the challenges these agencies regularly face.  
*Note: Credit will be granted for only one prefix: CYB or CJC.*

**Cross Listed Course(s):** CYB 2500

### **CJC 3110 - Constitutional Issues in Criminal Procedure and Evidence**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course will study the U.S. Constitution and the

function of the U.S. Supreme Court in interpreting that document, especially those issues related to criminal procedure, evidence and the admissibility of evidence. It will consist of readings of decisions in the areas of privacy, due process, equal protection, and specific amendments to the Constitution related to the administration of criminal justice in the United States.

### **CJC 3130 - Victimology**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course explores the history, causes, nature, and type of criminal victimization; the impact of crime on victims; as well as the methods by which the justice system respond to victims. This course will also examine the Colorado Victims' Rights Amendment.

### **CJC 3200 - Criminal Justice Administrative Behavior**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course is a comprehensive analysis of criminal justice organizational behavior and management. Roles and values in management, administrative alternatives, and the role of managers as an agent of change are studied.

### **CJC 3210 - White-Collar Crime**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students will examine white-collar crime and its lack of punishment as well as its impact on individuals, businesses and society. Various types of white-collar crimes such as governmental corruption, organization fraud, consumer and environmental offenses, anti-trust violations, tax evasion, embezzlement, pyramid schemes, and medical fraud will be explored. Legal issues, including corporate liability and the range of civil and criminal penalties will also be reviewed. Students will survey law enforcement responses to white-collar crime and examine theoretical explanations. The course focuses on how the law evolves as criminal behaviors evolve in a technical age where transnational and internet crime are growing trends in the modern era. There is an emphasis on how these criminal and legal changes influence governmental institutions and society in general.

### **CJC 3270 - Community Corrections**

**Credits:** 3

**Prerequisite(s):** CJC 1010, CJC 1450

**Description:** This course covers the history and implementation of community corrections policies. The course covers community corrections as a part of a prison sentence. The focus is on pre-release programs, work release programs, and the shift from determinant to indeterminate sentencing. This course also focuses on community corrections as an alternative to prison. The emphasis is on restitution, house arrest, ankle-bracelet monitoring, drug courts, day reporting centers, and other methods that allow offenders to maintain ties

within their community. There is an emphasis on the economic and social benefits of community corrections, rather than incarceration.

### **CJC 3290 - Probation and Parole**

**Credits:** 3

**Prerequisite(s):** CJC 1010, CJC 1450

**Description:** Students will explore the history, philosophy, and operations of probation and parole in the United States. Students will examine the theoretical foundations and supervisory functions of probation and parole as this relates to sentencing practices, legal issues, and evidence-based practices. There is an emphasis on the reentry phase of state supervision. Key issues include, recidivism, the role of the victim, and the outcome of punitive policies in the United States. Students will examine the community response to inmates coming home and the problems parolees face when returning to their community.

### **CJC 3350 - Juvenile Justice and Delinquency**

**Credits:** 3

**Prerequisite(s):** CJC 1010 or permission of instructor

**Description:** This course is a study of the nature and causes of delinquency and crime, criminal personality, and societal processes. This course analyzes the concepts of prevention, control and prediction in juvenile delinquency.

### **CJC 3400 - Criminological Theories**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** The characteristics of criminal behavior, including biological, psychological, social, and cultural links to deviant and antisocial behavior are illustrated. This course examines criminal self-conceptions, criminal personality and serial criminals.

### **CJC 3410 - Criminal Justice and the Social Structure**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course examines criminal justice systems in relation to social power, class structure, ecological patterns, subcultural developments, and processes of change in the community and in the criminal justice structure. Culture is examined in order to comprehend the interaction between subcultures in the larger society, as well as develop an understanding of cultural competence. The course evaluates the ambivalence in the social processes of law enforcement, courts and corrections, and the problems of professionalization.

*Note: Credit will be granted for only one prefix: CJC or HON.*

**Cross Listed Course(s):** HON 3410

### **CJC 3420 - Organized Crime**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students in this course will examine history of organized crime in America and its impact on politics, law

enforcement and the community. Students will explore the evolution of organized crime throughout American history, as well as the relationship between organized crime and law enforcement. Students will examine theories, politics, and policies related to organized crime. Students will also closely examine the history and development of legal punishment in the United States and the social consequences of these punishments, focusing on developing laws surrounding cybercrime and how the law evolves as criminal behaviors evolve in a technological age where transnational and internet crime are growing trends in the modern era. There is an emphasis on how these criminal and legal changes influence governmental institutions and society in general.

### **CJC 3430 - Drugs and the Criminal Justice System**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course examines the history of drug use and drug laws, the relationship between drug use and crime, drug offenses and the criminal justice system, as well as treatment and prevention issues.

### **CJC 3440 - American Gangsters**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:**

This course will examine the nature and causes of gangs with an interdisciplinary focus. It will provide a background on gang membership and structure, an overview of the theoretical background and purpose of gangs, and will discuss prevention and intervention from a cross cultural perspective.

### **CJC 3460 - Crime Mapping and Analysis**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** In this course, students will define the concepts of crime mapping and develop skills to use Geographic Information System (GIS) in understanding crime problems. Students will explore applied research techniques for tactical (crime series), strategic (operations research & problem analysis), and administrative analysis (budget/crime trend forecasting). Students will also develop skills to use GIS (Crime Mapping) tools, and interpret temporal and spatial statistics that lead to informed, data driven, and evidence-based criminal justice policy.

### **CJC 3470 - Punishment and Society**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course is a critical examination of the history and development of the United States' system(s) of criminal punishment and rehabilitation. It covers the different ways in which the United States has sought to penalize, correct, and prevent criminal behavior.

### **CJC 3480 - Sex Crimes and Offenders**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students will examine the nature and etiology of the major categories of sex offenses. Students will also explore the criminal justice system's responses to sex crimes and offenders, including investigation and prosecution of sex crimes. Students will evaluate federal and local sex offender legislation, as well as community supervision and reentry issues that face offenders. Students will also survey theoretical approaches to sex crimes and offenders.

#### **CJC 3490 - Serial Killers**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students will study the phenomenon of serial murders and other serial violent crimes in America. Students will examine the typology of serial killers and other violent serial offenders. Different and unique characteristics of male, female, and team serial killers will be discussed. An overview of theoretical explanations and causes of serial offending and/violent crimes will be analyzed. The social and political implications of studying serial killings will be studied, as well as how law enforcement and the legal system investigate and prosecute serial murderers.

#### **CJC 3710 - Women and the Law**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or Permission of instructor

**Description:** This course introduces students to basic concepts that define the relationship of women to the law. Students will learn about the historical conditions and legal perspectives that affect women's rights in the U.S. This course deals specifically with women's equal participation in citizenship, work, education, reproductive rights, and protection from violence.

*Note: Credit will be granted for only one prefix: CJC, PSC, SOC or GWS.*

**Cross Listed Course(s):** GWS 3310, PSC 309J, SOC 365B

#### **CJC 3720 - Chicanos and the Law**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or CJC 1010 with a minimum grade of C

**Description:** The course offers the student a complex understanding of the laws and the legal system, and how they relate to individual Chicanos and Chicano community rights. The dynamics of difference, cultural conflict with respect to race, and issues concerning ethnicity will be examined.

*Note: Credit will be granted for only one prefix: CJC or CHS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 3200

#### **CJC 3800 - Federal Law Enforcement**

**Credits:** 3

**Prerequisite(s):** CJC 1010 and CJC 2210 OR CJC/CYB 2500

**Description:** Students in this course will examine the United States federal law enforcement system by focusing on the various federal

agencies and their relationships with the criminal justice system, including historic foundations and emerging issues. The relationships between federal and local/state/private law enforcement are presented within the context of administrative partnerships, collaborative efforts, and unified missions that pertain to domestic and international crime threats, homeland security collaborations, and delivery of services to include technological advances.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** HSP 3800

#### **CJC 3810 - Hate Crime**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students examine the historical and contemporary concept of hate crimes. Specifically students will examine the causes, manifestations, and consequences of crimes committed against people of color, sexual orientation, minorities, women, religious sects, and other marginalized groups. How hate crime is addressed and controlled through social, legal, and political methods is also explored.

#### **CJC 3820 - Study Abroad: Criminal Justice and Criminology**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** This is a variable topics course and involves study and visitation of distinct, selected international criminal justice systems. Students will have an opportunity to compare these systems to the Criminal Justice System in the United States through travel, site visits, and lectures about these comparative law enforcement, courts, prisons, gangs, and counterterrorism groups.

*Note: This course may be repeated 3 times for a maximum of 9 credit hours. 6 of these credit hours may be used to fulfill CJC coursework.*

#### **CJC 3980 - Internship in Criminal Justice and Criminology**

**Credits:** 1-6

**Prerequisite(s):** Major in Criminal Justice and Criminology or Cybersecurity; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Note: Variable Credit and students may repeat the course for a total of 6 credit hours.*

*Credit will be granted for only one prefix*

**Cross Listed Course(s):** CYB 3980

#### **CJC 4050 - Criminal Justice Professional Seminar: Variable Topics**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** A variable titled course focusing on the synthesis of concepts and skills present in the criminal justice system. Designed to provide the criminal justice professional with theories and their

application to criminal justice policy implementation.  
*Note: This course may be repeated for credit under different titles.*

### **CJC 4160 - Human Trafficking**

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 4160, GWS 4160, HON 4160, HSP 4160, SWK 4160

### **CJC 4220 - Criminal Justice and the Elderly**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course focuses on criminal justice issues related to the elderly as victims, elder abuse, neglect, elder crime prevention programs, old age and crime, elder crime patterns, aging prisoners, and rehabilitative programs. State agencies and other groups involved with crime and the elderly are examined. It is designed to provide a theoretical approach to criminal justice professionals in the application of criminal justice policy implementation.

### **CJC 4230 - The Female Offender**

**Credits:** 3

**Description:** This course examines the nature and causes of female criminality and the responses to female offending by all areas of the criminal justice system e.g. policing, courts and prisons. It blends an in-depth analysis of historical methods of addressing female criminality with an intersectional approach to finding solutions to modern-day problems that can influence criminality among girls and women such as intimate partner violence, poverty, mental illness, and the feminization of work. Topics will include gender norms, girl fights, women who kill, prostitution, human trafficking, women's prisons and women on death row. The course will also address methods for correcting and preventing female criminality from an intersectional approach.

*Note: Credit will be granted for only one prefix: CJC or GWS.*

**Cross Listed Course(s):** GWS 4230

### **CJC 4240 - Women and Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or PSC 1020 or SOC 1010 or permission of instructor

**Description:** Students analyze key patterns and trends in violence

perpetrated by and against women, with special focus on the diverse experiences of women in the United States. Students will investigate historical, contemporary, sociopolitical, and cross-cultural patterns in causal factors, perpetuation, prevention, intervention and treatment relative to violence and women. Topics will include sexual violence, domestic violence, family violence, cyber-violence, women in prison, women on death row, and women as victims of violence, among others.

*Note: Credit will be granted for only one prefix: CJC, GWS, PSC, or SOC.*

**Cross Listed Course(s):** GWS 4240, PSC 4240, SOC 4240

### **CJC 4250 - Community Policing**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course examines the historical evolution and implementation of Problem and Community Oriented Policing. The roles of the police and community are analyzed. A case study approach is utilized in which students solve current community issues from a community and problem oriented policing perspective/approach.

### **CJC 4260 - Crime and Criminal Justice in the Media**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** The course will examine the relationship between the mass media, crime and criminal justice with special emphasis placed on the social construction of crime and criminal justice. Other topics of inquiry will include the portrayal of crime and criminal justice in the entertainment and news media, the influence of the media on attitudes toward crime and justice, and the use of news media in the courts. Criminological theories and their relationship to how crime and criminal justice are reported in the media will also be discussed.

### **CJC 4430 - Comparative Criminal Justice**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students engage in a survey of worldwide criminal justice philosophies, systems and practices. They also examine contemporary criminal justice organizations and legal systems in major and emerging nations.

### **CJC 4650 - Ethics for the Criminal Justice Professional**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** This course offers an in-depth analysis of ethical issues which confront the criminal justice professional. It includes an examination of the issues of covert surveillance, regulation of morals, equity and fairness, "blowing the whistle," and public interest versus private freedom.

### **CJC 4700 - Capstone Seminar in Criminal Justice and Criminology**

**Credits:** 3

**Prerequisite(s):** CJC 1010, Senior Standing

**Description:** This course is designed to provide criminal justice majors and minors with a capstone experience emphasizing integration of knowledge acquired in previous courses on the institutions, policies, and practices of criminal justice and criminology. The course seeks to synthesize learning with exercises that promote critical thinking, the application of theory, and the critique of current practices in criminal justice and criminology. Students will also be asked to verify their expertise through the completion of a senior project.

**University Requirement(s):** Senior Experience

## Culturally and Linguistically Diverse Education

### CLD 2890 - Second Language Acquisition: K-12 Educational Implications

**Credits:** 3

**Description:** This course examines the intricate web of variables that interact in the process of acquiring a second language and the instructional implications for K-12 students. These variables include linguistic, cognitive, social, cultural, and political factors. The course will examine each of these factors and consider the educational implications of how they work together to foster or inhibit successful second language learning and academic success for second language learners in K-12 public schools.

### CLD 3290 - Literacy Development for Culturally and Linguistically Diverse Students K-12

**Credits:** 3

**Prerequisite(s):** CLD 3510 or CLDM 5510

**Description:** This course in literacy development and instructional techniques is designed to extend elementary and secondary educators' knowledge of literacy instruction to Culturally and Linguistically Diverse students. Through this course students will gain a knowledge base which will enable them to develop the language and literacy of the culturally and linguistically diverse learners in their classrooms. Students will create and implement lesson and unit plans encompassing the knowledge obtained in the course, and will reflect upon the effectiveness of their teaching. This course contributes to the essential knowledge and dispositions required of teachers who work with elementary and secondary English language learners, and serves as a foundation for further study in the field of English language acquisition theory and teaching techniques.

### CLD 3310 - Integrated Methods of Teaching English as a Second Language

**Credits:** 3

**Prerequisite(s):** CLD 3510 or CLDM 5510

**Description:** This course will focus on content area methodologies to develop the linguistic, academic, social, and cognitive skills of K-12 English Language Learners (ELL). This course will also emphasize the process of selecting the most appropriate methods and materials, as well as planning for the most effective use of resources. Students will demonstrate an understanding of the basic premises of language

program development and instructional strategies for supporting content area learning.

### CLD 3510 - Perspectives in Education for Culturally and Linguistically Diverse Learners

**Credits:** 3

**Description:** This is an introductory course in language acquisition and teaching theory with emphasis on the culturally and linguistically diverse learner. The course includes historical perspectives, philosophical frameworks, legal implications, subject matter methodologies, assessment, classroom instruction, parent involvement, and current issues that affect culturally and linguistically diverse students and the school programs serving them.

### CLD 3910 - Assessment of English Language Learners

**Credits:** 3

**Prerequisite(s):** CLD 3510 or CLDM 5510

**Description:** This course is designed to familiarize teacher candidates with various assessment issues and strategies specific to English language learners. Through this course teacher candidates will gain a current knowledge base which will enable them to effectively assess English language learners and report assessment results to students, parents, other educators, the school district, and other appropriate entities. Teacher candidates will learn various formal and informal assessment techniques and will be able to use the results of assessments to create appropriate and effective instruction.

### CLD 3930 - Spanish Bilingual Education Theory and Research

**Credits:** 3

**Prerequisite(s):** CLD 3510 or CLDM 5510

**Description:** Students will examine current theory and research in the field of bilingual education and create a research proposal. Students will be introduced to the major research traditions, design components, and methodologies of qualitative, quantitative and mixed-methods research. They will apply this knowledge of research in the creation of a bilingual education research proposal. This course will be taught in English.

### CLD 3940 - Spanish Bilingual Language and Literacy Development

**Credits:** 3

**Prerequisite(s):** CLD 3510 or CLDM 5510; this course is taught in Spanish and requires instructor approval for registration

**Description:** This course in Spanish literacy development and instructional techniques is designed to extend elementary and secondary educators' knowledge of Spanish literacy instruction for emerging bilingual students. Students will create and implement literacy lessons and a literacy unit plan encompassing the knowledge obtained in the course. This course will be taught in Spanish.

### CLD 3950 - Spanish Bilingual Methods and Materials

**Credits:** 3

**Prerequisite(s):** CLD 3510 and this course is taught in Spanish and

requires instructor approval for registration

**Corequisite(s):** CLD 3951

**Description:** This course prepares students to teach Spanish speaking students, specifically in the content areas (Social Studies, Science & Math). Strategies, methods, materials, and resources are shared to plan content instruction in two languages for emerging bilingual students. This course will be taught in Spanish. Further, translanguaging pedagogy will be utilized to support the planning and implementation of bilingual lessons. For elementary students, a 1 credit field experience (CLD 3951) must be taken concurrently with this course. Modern Language Spanish majors will take this course concurrently with MDL 4961. An observation of a lesson taught in Spanish will be scheduled during the classroom field experience.

### **CLD 3951 - Spanish Culturally and Linguistically Diverse (CLD) Bilingual Education Specialist K-12 Added Endorsement Field Experience**

**Credits:** 1

**Prerequisite(s):** CLD 3510 or CLDM 5510

**Corequisite(s):** CLD 3950

**Prerequisite(s) or Corequisite(s):** Oral Proficiency Interview

**Description:** This one-credit course is the required 30-hour field experience for students seeking the Spanish Culturally & Linguistically Diverse (CLD) Bilingual Education Specialist K-12 Added Endorsement. This field experience is for Elementary Education, Special Education and Early Childhood Education majors or licensed teachers.

### **CLD 4115 - CLD Residency I**

**Credits:** 3-7

**Prerequisite(s):** EDU 4011, EDU 4015, EDU 3666, EDU 3665, EDU 3550

**Corequisite(s):** RDG 4444

**Description:** This clinical residency in a classroom with culturally and linguistically diverse (CLD) learners requires at least three full, sequential instructional days per week in an assigned accredited public or private elementary classroom with English Language Learners. The CLD residency and accompanying seminar includes opportunities to synthesize content from all previous coursework, including concentration coursework for serving CLD students: methods for teaching CLD learners; professionalism; designing, implementing, and assessing instruction for diverse learners; student motivation and engagement; and collaboration with colleagues and families, particularly diverse families. The teacher candidate is an active participant in the elementary school community through close observation of the mentor teacher, collaborative practice with the mentor teacher, and/or supervised independent practice. Concepts and skills learned in RDG 4444 are a particular focus in this residency; however, residents are engaged in all content areas.

### **CLD 4225 - CLD Residency II**

**Credits:** 3-9

**Prerequisite(s):** RDG 4444; EDU 4115 and/or CLD 4115 or a combination of EDU 4115 and CLD 4115

**Corequisite(s):** EDU 4222; EDU 4225

**Description:** This culminating, full-time clinical residency will place

the teacher candidate in an assigned, accredited public or private elementary school. Close collaboration between the candidate and mentor teacher will occur in a variety of ways, including the candidate taking the role of lead teacher. The candidate will assume responsibility for all functions of the classroom, including overall design and implementation of instruction and assessment in all curricular areas, maintenance of a productive classroom environment tailored to the needs of diverse learners, communication with colleagues and families, and integration of technology to improve student learning. Knowledge and skills gained in the corequisite EDU 4222 course concerning assessment, data, and use of specific instructional strategies for identified needs are practiced, and the teacher candidates evaluate these practices in light of class and individual academic achievement. Candidates participate in all content area instruction. CLD Residency II includes a seminar.  
**University Requirement(s):** Senior Experience

### **CLD 4520 - Field Experience in Culturally and Linguistically Diverse Education**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** Successful completion of all course work for the Culturally and Linguistically Diverse Education Endorsement; or permission of instructor.

**Description:** This course provides candidates for the Culturally and Linguistically Diverse Education Endorsement the opportunity to develop and practice effective instructional strategies for English language learners in a K-12 classroom setting. Students are required to spend fifty-five hours of field experience in a culturally and linguistically diverse classroom and attend seminars to consider and reflect on practice.

### **CLD 4590 - Culturally and Linguistically Diverse: ESL Student Teaching and Seminar**

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements of the major, minor, Culturally and Linguistically Diverse Endorsement courses, teacher licensure program, and general studies. Satisfaction of all student teaching application requirements by the required deadline. Passage of the Initial Licensure Area PLACE exam.

**Corequisite(s):** EDU 4190 or EDS 4290 or ECE 4390 with a cooperating teacher in the student's initial licensure area.

**Description:** This course is a supervised, full-time, eight-week, student-teaching experience in an accredited public or private school. The experience provides increasing responsibility for the teaching, supervision, and direction of an identified group of English language learners, K -12. Teacher candidates must attend seminars conducted by college supervisors of student teaching. Teacher candidates are required to demonstrate proficiency in Performance Based Standards for Colorado Teachers, as well as Colorado Culturally and Linguistically Diverse Endorsement Standards.

## **Cybersecurity**

### **CYB 2001 - Cyber Laws and Regulations**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students in this course will define current cyber laws and regulations as they relate to cybersecurity and cybercrime. Students will examine the legal aspects of forensic computer science, privacy issues, constitutional protections, and will review related state, federal and international laws and regulations. Students will also examine the challenges in the investigation and prosecution of cybercriminals as well as the constitutional issues applicable to the presentation of cybercrime evidence. Students will examine the legal and ethical implications created in cyberspace.

### **CYB 2500 - Criminal Investigation**

**Credits:** 3

**Prerequisite(s):** CJC 1010

**Description:** Students in this course will define and explain the relationship between law enforcement and the investigative process. These investigative processes will be further analyzed in the context of defining and categorizing criminal behavior alongside the increased need for technological advances. Law enforcement agencies and their evolving techniques will also be examined from the perspective of the challenges these agencies regularly face.  
*Note: Credit will be granted for only one prefix: CYB or CJC*  
**Cross Listed Course(s):** CJC 2500

### **CYB 3980 - Internship in Criminal Justice and Criminology**

**Credits:** 1-6

**Prerequisite(s):** Major in Criminal Justice and Criminology or Cybersecurity; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.  
*Note: Variable Credit and students may repeat the course for a total of 6 credit hours.*  
*Credit will be granted for only one prefix*

**Cross Listed Course(s):** CJC 3980

### **CYB 4990 - Capstone Seminar in Cybersecurity**

**Credits:** 3

**Prerequisite(s):** CJC 3210, CJC 3420, and CJC 3800; CIS 4550; CSS 3752; Senior Standing 90 hours posted; per instructor's permission

**Description:** Students in this course will integrate their knowledge acquired in previous courses on the institutions, policies, and practices of computer information systems, computer sciences and criminal justice. The students will synthesize interdisciplinary learning with exercises that promote critical thinking, including the development of a system plan with a focus on addressing encryption issues and best practices data protection. Students will critique current practices in criminal justice and cybersecurity. Students will evaluate the computer science of detecting infiltrated computer system networks and portable devices, with an extension towards a security conscious system and software development practices and

testing activities, which includes discussion of ethical hacking.  
**University Requirement(s):** Senior Experience

## **Dance**

### **DANC 1020 - Ballet Folklorico**

**Credits:** 2

**Description:** This course will serve as an introduction to Ballet Folklorico through an exploration of the technique, music, culture, and philosophy associated with this dance tradition.  
**Cross Listed Course(s):** HPL 1020

### **DANC 1101 - Hip Hop I**

**Credits:** 2

**Description:** This course will incorporate hip hop dance techniques, popular hip hop moves, terminology, history and various styles of hip hop will be learned. The class will consist of warm up, center floor work, across the floor, and dance combinations.  
*Note: This course may be taken twice for a total of 4 credits.*  
**Cross Listed Course(s):** HPL 1101

### **DANC 1110 - Belly Dance I**

**Credits:** 2

**Description:** Belly dancing, an ancient cultural dance, is a creative and joyous art of self-expression and a way to fitness and wellbeing.  
*Note: This course may be taken twice for a total of 4 credits.*  
**Cross Listed Course(s):** HPL 1110

### **DANC 1120 - African Dance and Drumming**

**Credits:** 2

**Prerequisite(s):** Department Approval  
**Description:** This course will serve as an introduction to African Dance and Drumming through an exploration of movement, music, culture, and philosophy associated with that tradition.

### **DANC 1130 - Ballet Level I**

**Credits:** 2

**Description:** Intended for adults with minimal or no experience, this course presents basic steps, positions, and movements of classical ballet, stressing correct body placement.  
**Cross Listed Course(s):** HPL 1130

### **DANC 1150 - Ballroom Dance**

**Credits:** 2

**Description:** This course provides instruction and practice in ballroom dance with a focus on traditional dances. Dance mixers and ice breakers will also be included in this class.  
**Cross Listed Course(s):** HPL 1150

### **DANC 1160 - Jazz Level I**

**Credits:** 2

**Description:** This course is designed to teach fundamental techniques of jazz dance for fitness, endurance, strength, alignment and to help the student discover different movement patterns.

**Cross Listed Course(s):** HPL 1160

#### **DANC 1180 - Modern Dance I**

**Credits:** 2

**Description:** This course is designed for students with minimal or no dance experience. A basic modern dance foundation stressing alignment, strength and coordination will be covered.

**Cross Listed Course(s):** HPL 1180

#### **DANC 1210 - Improvisation and Choreography**

**Credits:** 3

**Description:** This course explores introductory dance improvisation and composition through creative problem solving and choreographic exercises. It is organized into sequences, expressing a variety of themes.

**Cross Listed Course(s):** HPL 1210

#### **DANC 1240 - Tap Dance I**

**Credits:** 2

**Description:** This course is designed to provide an introduction to tap dance, as well as the physical, social and emotional benefits derived from regular participation in this activity.

**Cross Listed Course(s):** HPL 1240

#### **DANC 2201 - Hip Hop II**

**Credits:** 2

**Prerequisite(s):** HPL 100I or Instructor Approval

**Description:** Students will gain a physical and intellectual understanding of intermediate hip-hop as they are exposed to hip-hop terminology, history, and a variety of hip-hop styles.

**Cross Listed Course(s):** HPL 2201

#### **DANC 2210 - Belly Dance II**

**Credits:** 2

**Prerequisite(s):** HPL 1110 or permission of instructor

**Description:** Belly dancing, an ancient cultural dance, is a creative and joyous art of self-expression and a way to fitness and wellbeing. Belly Dancing Level II will delve deeper into the emotional, physical and spiritual components of Belly Dancing. Students will learn to dance with increased fluidity and depth, explore floor work and create an original dance.

*Note: This course may be taken twice for a total of 4 credits.*

**Cross Listed Course(s):** HPL 2210

#### **DANC 2230 - Ballet II**

**Credits:** 2

**Prerequisite(s):** HPL 1130 or Instructor Approval

**Description:** This course is designed for students with beginning ballet skills. It will cover low intermediate level classical ballet exercises, stressing performance quality and proper alignment.

**Cross Listed Course(s):** HPL 2230

#### **DANC 2240 - Tap Dance II**

**Credits:** 2

**Prerequisite(s):** HPL 1240

**Description:** This course is designed for low-intermediate level tap dance students. It introduces intermediate techniques of tap for fitness, health, rhythmic and performance skills.

**Cross Listed Course(s):** HPL 2240

#### **DANC 2260 - Jazz II**

**Credits:** 2

**Prerequisite(s):** HPL 1160

**Description:** This course is for students with beginning level jazz dance experience. This course covers low intermediate Jazz Dance techniques focusing on alignment and performance presence.

**Cross Listed Course(s):** HPL 2260

#### **DANC 2280 - Modern Dance II**

**Credits:** 2

**Prerequisite(s):** HPL 1180

**Description:** This course is designed for students with beginning modern dance experience. A low intermediate movement foundation stressing alignment, syncopation and performance presence will be covered.

**Cross Listed Course(s):** HPL 2280

#### **DANC 3040 - MSU Denver Dance Ensemble**

**Credits:** 3

**Prerequisite(s):** 6 credits of dance technique or instructor approval

**Description:** As an ensemble, students create, learn, and perform dances in various community settings. Off-campus travel is required.

#### **DANC 3330 - Ballet III**

**Credits:** 2

**Prerequisite(s):** HPL 2230 and Instructor Approval

**Description:** This course is designed for students with low intermediate ballet skills. Intermediate level ballet exercises, stressing quality, artistry, alignment and efficiency of movement are covered.

**Cross Listed Course(s):** HPL 3330

#### **DANC 3360 - Jazz III**

**Credits:** 2

**Prerequisite(s):** HPL 2260 and department approval

**Description:** This class is for students with low intermediate level jazz dance experience. This course covers intermediate Jazz Dance focusing on, alignment, and performance presence.

**Cross Listed Course(s):** HPL 3360

### **DANC 3380 - Modern Dance III**

**Credits:** 2

**Prerequisite(s):** HPL 2280 and Department Approval

**Description:** This course is for students with low intermediate modern dance experience. Students will build an intermediate movement foundation stressing alignment, syncopation, weight and performance presence.

**Cross Listed Course(s):** HPL 3380

### **DANC 3391 - Cleo Parker Robinson International Summer Dance Institute I**

**Credits:** 1

**Prerequisite(s):** 4 credits of Modern, Jazz or Ballet and instructor approval

**Description:** This course is for students with low intermediate dance experience. An intermediate movement foundation stressing alignment, strength, weight and performance presence will be covered.

### **DANC 3392 - Cleo Parker Robinson International Summer Dance Institute II**

**Credits:** 2

**Prerequisite(s):** 4 credits of Modern, Jazz or Ballet and instructor approval

**Description:** This course is for students with low intermediate dance experience. An intermediate movement foundation stressing alignment, strength, weight and performance presence will be covered.

### **DANC 3410 - Skills and Methods of Teaching Dance Technique**

**Credits:** 3

**Prerequisite(s):** 4 credits in modern, jazz, ballet, tap, hip hop, or world dance forms, Junior standing or instructor approval

**Description:** This course will prepare students to teach dance technique classes to a range of ages, populations, and skill levels.

*Note: Some sections of this course may be taught as Service Learning.*

### **DANC 3420 - Skills and Methods of Teaching Improvisation and Choreography**

**Credits:** 3

**Prerequisite(s):** DANC 1210

**Description:** This course is designed to prepare the student to teach improvisation, choreography, and creative dance in schools, studios, and other settings.

### **DANC 3440 - Dance Production**

**Credits:** 3

**Prerequisite(s):** HPL 1210 and Sophomore standing

**Description:** This course is designed to teach dance students how to produce a performance. Students gain practical experience through the production of a dance-based performance.

### **DANC 3750 - Study Abroad: Human Performance and Sport**

**Credits:** 3

**Prerequisite(s):** Sophomore standing, 2.5 GPA

**Description:** This is a variable topics course and involves study and visitation to historical and culturally rich selected international human performance and sport programs and locations. Students will compare international approaches to human performance and sport through a combination of the following: travel, site visits, tours, interactive educational activities, research in libraries of local institutions and lectures. Lectures may highlight current scientific and cultural themes, governance, management, marketing, sport operations & development, health & fitness initiatives, protocols, and collective sport activities.

**Cross Listed Course(s):** HPS 3750

### **DANC 3835 - African Drum and Dance Ensemble**

**Credits:** 1

**Description:** This ensemble introduces the varied and rich musical traditions of Africa and the African diasporas through participation and performance. The course focuses on the development of a variety of drumming and dance techniques, while cultivating a program of pieces for performance at the end of the semester. No previous musical experience is required, and it is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

**Cross Listed Course(s):** HPS 3835, MUS 3835

### **DANC 3905 - Dance Repertory**

**Credits:** 3

**Prerequisite(s):** 4 credits in either Modern, Jazz, or Ballet or instructor approval

**Description:** Students learn and perform dances choreographed by faculty members, community members, their peers, and/or the repertory of historic contemporary choreographers.

### **DANC 3910 - Dancing Histories in a Global Context**

**Credits:** 3

**Prerequisite(s):** ENG 1010 OR both ENG 1008 and ENG 1009, AND ENG 1020 (or the Honors Program course, ENG 1021)

**Description:** Considering dance as a reflection of culture, students examine the history of various dance practices from around the globe, informed by religious, sociopolitical, economic, and cultural contexts.

### **DANC 3920 - Dance Entrepreneurship**

**Credits:** 3

**Prerequisite(s):** Junior standing or instructor approval

**Description:** Through an overview of dance career management tools, students will learn entrepreneurship skills and strategies to create opportunities in dance-related businesses.

*Note: Some sections of this course may be taught as Service Learning.*

## DANC 3930 - Choreography II

**Credits:** 3

**Prerequisite(s):** HPL 1210

**Description:** This course develops students' choreographic skills as they explore non-traditional and multidisciplinary compositional forms, creating original choreography for a dance concert performed outside of class.

## DANC 3940 - Experiential Movement, Somatics and Injury Prevention for Dance Artists

**Credits:** 3

**Prerequisite(s):** 4 credits in Modern, Jazz or Ballet, OR instructor approval

**Description:** This class will use experimental/sensory activities and dance movement explorations to facilitate the kinesthetic experience of anatomy, planes of motion, alignment and biomechanics.

## DANC 3980 - Internship for Dance

**Credits:** 3-9

**Prerequisite(s):** Minimum of 10 credits in dance and consent of instructor

**Description:** The internship is an applied experience with a dance organization, providing students with opportunities to utilize acquired dance knowledge and skills in a non-class setting.

## DANC 3990 - Dance Field Experience

**Credits:** 1-3

**Prerequisite(s):** Permission of the instructor

**Description:** This course enables students to apply a range of concepts from the field of dance in a practical, hands-on learning experience. Students may earn from 1 to 3 credit hours through this field experience by working with a specific dance organization or project.

*Note: This course may be repeated for up to 12 credits.*

## DANC 4010 - Advanced/Professional Company Class

**Credits:** 2

**Prerequisite(s):** 4 credits of upper division Modern, Jazz or Ballet and instructor approval

**Description:** Intended for advanced intermediate dance students, this course provides advanced movement foundations stressing varying concepts each semester, including alignment, strength, weight, dynamics, and performance presence.

## DANC 4430 - Ballet IV

**Credits:** 2

**Prerequisite(s):** HPL 3330 and Department Approval

**Description:** This course is designed for students with intermediate ballet skills. This course will cover advanced intermediate level ballet, stressing quality, artistry, efficiency and alignment.

**Cross Listed Course(s):** HPL 4430

## DANC 4460 - Jazz IV

**Credits:** 2

**Prerequisite(s):** HPL 3360 and Department Approval

**Description:** This class is for students with intermediate level jazz dance experience. This course covers advanced intermediate Jazz Dance, focusing on alignment and performance presence.

**Cross Listed Course(s):** HPL 4460

## DANC 4480 - Modern Dance IV

**Credits:** 2

**Prerequisite(s):** HPL 3380 and Department Approval

**Description:** This course is for students with intermediate modern dance experience. An advanced intermediate movement foundation stressing alignment, strength, weight and performance presence will be covered.

**Cross Listed Course(s):** HPL 4480

## DANC 4500 - Motor Learning and Development

**Credits:** 3

**Description:** The focus of this course will be an examination of motor learning principles and their role in the developmental stages of individuals. Emphasis is placed on the various aspects of perceptual motor control and environmental factors affecting skill acquisition.

**Cross Listed Course(s):** HPS 4500

## DANC 4910 - Dance and Interdisciplinary Performance in the 20th Century and Beyond

**Credits:** 3

**Prerequisite(s):** HPL 1210 and DANC 3930

**Description:** This course investigates dance and interdisciplinary performance since 1960. Projects explore multidisciplinary collaboration and culminate in a public showing of creative works outside of class.

## DANC 4920 - Community-Based Dance and Social Change

**Credits:** 3

**Prerequisite(s):** DANC 2420, 4 credits in modern, jazz, ballet, tap, hip hop, or world dance forms, and Junior standing or instructor approval

**Description:** Students will experiment in creatively engaging communities and explore the facilitation and manifestation of community-based dance projects aimed at social transformation.

*Note: Some sections of this course may be taught as Service Learning.*

## DANC 4990 - Dance Senior Experience

**Credits:** 3

**Prerequisite(s):** Senior standing, completion of General Studies requirements, completion of a minimum 36 credits within major, 2.8 GPA in major

**Description:** This course provides Dance students the opportunity to

synthesize knowledge gained from their undergraduate studies through an independent project or internship and weekly seminar.

**University Requirement(s):** Senior Experience

## Early Childhood Education

### ECE 2100 - Introduction to Early Childhood Education

**Credits:** 3

**Description:** This survey course provides an overview of early childhood care and education, including historical and cultural perspectives, organization structure, programming, and developmentally effective culturally appropriate practices. The course includes an overview of the eight key areas of professional knowledge: Child Growth and Development; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Health, Nutrition and Safety; Professionalism; Administration and Supervision.

### ECE 2310 - Families and Communities: Advocacy and the Law

**Credits:** 3

**Description:** The family, the community and the school as partners in the education of children is the focus of the course and includes planning and activities that encourage family and community involvement. The course includes the history of parent education, the family unit, culture and community, communication skills, parent-teacher conferences, mandated reporting of child abuse, and parental rights and responsibilities.

### ECE 2330 - Creativity and Expressive Arts for the Young Child

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ECE 2950

**Description:** Students will learn how creativity is defined, its importance, and how creative thinking in children (birth - age 8) can be promoted in a developmentally effective early childhood environment. Theories of artistic development in the visual arts, creative movement and dance, dramatic arts, and music will be studied. Students will learn pedagogy related to fostering cross-cultural understanding and respect, and integration of the expressive arts across the early childhood curriculum.

### ECE 2345 - Administration of Early Childhood Programs

**Credits:** 4

**Description:** This course provides an overall view of program administration and specific concepts applicable in a variety of early childhood settings: preschools, child care, infant/toddler care, and after-school programs. It also examines personnel management, program development, fiscal administration, marketing, and fund-raising.

### ECE 2360 - Infants and Toddlers I

**Credits:** 3

**Prerequisite(s):** ECE 2100

**Description:** This course focuses on infant/toddler curriculum and expanding quality in infant/toddler care. The importance of relationships, cultural diversity, nurturing environments, health and safety, and children with special needs is presented. The course provides a review of theories and emphasizes their applications and issues pertinent to infant and toddler development in group and/or family settings. It includes state requirements for licensing, health, safety and nutrition issues.

### ECE 2370 - Curriculum for the Young Learner

**Credits:** 3

**Prerequisite(s):** PSY 1800

**Prerequisite(s) or Corequisite(s):** ECE 2100

**Description:** Students will analyze the underlying theories and perspectives used in the design of effective early childhood preschool curriculum models. Using National Association for the Education of Young Children (NAEYC) guidelines, students will identify components of developmentally effective, research-based, culturally responsive curriculum. Students will participate in 15 hours of unsupervised field experience.

### ECE 2400 - Development and Characteristics of Early Learners

**Credits:** 3

**Description:** In this course, students examine the field of child development (prenatal - age 8) and developmental changes across domains. Students are exposed to the major theories of child development and their perspectives on the physical, cognitive, and socio-emotional development of young children. An emphasis is placed on understanding the implications of child development research and theory on classroom practice and the creation of supportive learning environments.

### ECE 2500 - Health, Safety and Nutrition

**Credits:** 3

**Description:** This course focuses on health, safety, and nutrition as key factors for optimal growth and development of young children. The course is required for director qualification of a large childcare center and includes information about health practices, requirements and record keeping; safety requirements and developmentally appropriate activities to facilitate safety consciousness in young children; nutrition guidelines, menu planning and food preparation for childcare settings; effective communication with families concerning health, safety, and nutrition recommendations sensitive to socio-cultural differences; and policies and practices for developing and managing a safe early childhood environment.

### ECE 2600 - The Exceptional Child

**Credits:** 3

**Prerequisite(s):** ECE 2100

**Description:** An overview of critical elements related to the education of young children with exceptionalities in the early childhood setting will be presented. Topics include the foundations of early childhood special education, a historical perspective of the field, typical and atypical child development, an overview of the

various exceptionalities, legal requirements and implications for practice, research based practices related to inclusion, natural settings, and least restrictive environments, family-professional collaborations, and accommodations and adaptations.

### **ECE 2950 - Developmentally Effective Practice (DEP) I: The Intentional Preschool Teacher**

**Credits:** 3

**Prerequisite(s):** ECE 2100, PSY 1800

**Description:** Principles underlying curriculum development and program planning to promote social competence in young children are the focus of this course. Course content includes knowledge of the three core requirements of developmentally effective practice: knowledge of child development, observation of individual children, and an awareness of socio-cultural influences. Students in this class will begin to organize and assemble a professional portfolio. Students will participate in a 45-hour, supervised practicum divided between two different early childhood settings and age groups (birth-age 3 and age 3-5). Students will conduct guided observations that focus on teacher behaviors and decision-making, intentional teaching, curriculum development and program planning to promote social competence in young children.

### **ECE 2970 - Supporting Social Emotional Competence**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ECE 2100

**Description:** This introduces learners to strategies and techniques related to classroom management, positive guidance strategies, building self-esteem, and promoting social and emotional development in children. Topics include approaches to promoting social emotional competence, guiding children's behavior, creating rules and setting limits, providing support for children, interacting through play and developing friendships.

### **ECE 3120 - Early Literacy Development: Birth to Age 5**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ECE 2950

**Description:** Students will examine the relationship between the developmental trajectories of young children's language and literacy development and the factors that impact them. Effective literacy classroom materials, routines, environments, assessments, and practices will be analyzed and developed. Students are required to spend ten hours outside of class time in order to read with young children and administer appropriate early literacy assessments.

### **ECE 3140 - Math and Science: Birth to Age 5**

**Credits:** 3

**Prerequisite(s):** ECE 2950

**Description:** Principles, methods, and materials for teaching math and science to young children, birth to 5 years, are the focus of this course. Included are opportunities for intentional planning, lesson implementation and assessment of standards-based content, processes and materials appropriate in a child-centered environment. Students will explore pedagogy related to inquiry-based science and

mathematics processes, and they will learn how to maximize children's learning by integrating mathematical and scientific concepts into other areas of the early childhood curriculum. Students are required to spend 10 hours outside of class time in a math and/or science related observation or working directly with young children.

### **ECE 3150 - Developmentally Effective Practice II: Planning for Beginning Readers**

**Credits:** 4

**Prerequisite(s):** ECE 2950

**Description:** Students will examine intentional planning and management of effective literacy instruction for children in early primary (K - 1) classrooms. Students will analyze the characteristics of literacy development of emerging, early, and fluent readers and learn to make effective decisions that facilitate knowledge, skills, strategies, attitudes, and behaviors requisite for greatest success in children becoming proficient readers and writers. The use of ongoing assessment to inform instruction and flexible grouping is emphasized. This course includes a 45 hour practicum in a designated early primary (K- 1st grade) classroom under the supervision of a cooperating teacher and a university supervisor.

### **ECE 3155 - Teaching Writing in ECE: Ages 5-8**

**Credits:** 2

**Prerequisite(s) or Corequisite(s):** ECE 3150

**Description:** In this course students will plan, implement, and reflect on the developmentally effective methodology for emerging and developing writers ages 5 - 8. Effective instructional approaches to support the teaching, learning, and assessment of various written genres will be introduced, practiced, and evaluated. Students will analyze the writing of beginning writers, apply knowledge of research, and utilize appropriate literacy standards to design effective writing lessons. Students will also investigate classroom management strategies and environmental design.

### **ECE 3350 - Documentation and Assessment in Early Childhood Education**

**Credits:** 3

**Prerequisite(s):** ECE 2950

**Description:** Emphasis in this course will be on the foundations of documentation, assessment and decision-making to facilitate young children's (birth to age 8) growth and development across all domains. Authentic, play-based, and observational methods will be addressed, along with portfolio development and standardized assessments. Students will observe and assess infants, toddlers, preschoolers, and primary age children for the purpose of planning developmentally effective curriculum. Students will learn to use various forms of technology to document children's development.

### **ECE 3360 - Infants and Toddlers II**

**Credits:** 3

**Prerequisite(s):** ECE 2360

**Prerequisite(s) or Corequisite(s):** PSY 3240

**Description:** The focus of the course is on infant/toddler responsive caregiving and curriculum. The importance of relationships, cultural diversity, nurturing environments, health and safety, and children with special needs are emphasized. Students are required to complete 30 hours of observation/practicum: 12 hours in an approved infant setting, 12 hours in an approved toddler setting and 6 hours of observation in different infant/toddler settings or models.

### **ECE 3460 - Assessment and Planning for the Exceptional Child (Birth - age 5)**

**Credits:** 3

**Prerequisite(s):** ECE 2400, ECE 2600

**Description:** Students will identify and analyze the theories and implications of formal and informal assessment methods in Early Childhood/Early Childhood Special Education (birth - age 5). Informed and appropriate decision-making in the administration of assessment instruments such as standardized testing and diagnostic screening tools will be introduced, with attention to rationale, limitations, suitability, benefits and challenges of both conventional and authentic measurement approaches. The critical relationship of assessment results and developmentally effective interventions will be emphasized.

### **ECE 3500 - Teaching with Children's Literature**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ECE 3150

**Description:** Students will learn to identify and evaluate quality literature for young children ages birth through 8. Students will explore and analyze various genres while considering perspectives related to censorship and anti-bias curriculum. Students will gain pedagogical knowledge to effectively engage children with quality children's literature for instructional purposes, including research, reading and writing instruction, and independent reading practice.

### **ECE 3600 - Curriculum in Inclusive Settings 0 to 5**

**Credits:** 3

**Prerequisite(s):** ECE 2600

**Prerequisite(s) or Corequisite(s):** PSY 3240

**Description:** In this course students will analyze and implement strategies for assessing children in naturalistic settings, designing curriculum, and using effective instructional strategies for children with exceptionalities in inclusive environments. Students will examine an overview of curricular approaches in early childhood special education, Birth to age 5, in order to demonstrate and apply learning in a 30 hour required field experience. The course builds on the content presented in previous courses and focuses on specific exceptionalities. Guidelines for adapting activities for young children with special needs, record keeping, collaborating with families, and working with assessment teams are included.

### **ECE 3610 - Teaching for Social Justice**

**Credits:** 4

**Description:** Students will engage in an initial study of issues related to life in poverty and its impact on teaching and learning. Course

content will include the critical impact of family and community partnerships; curriculum design; instructional strategies and assessment; relationship-driven classroom management; and teachers as learners, leaders and advocates related to issues of social justice and equity. Students are required to participate in a 45 hour field experience located in a high-needs community-based program serving young children and families.

### **ECE 3620 - Collaborative Partnerships in Early Childhood Special Education**

**Credits:** 3

**Prerequisite(s):** ECE 2600

**Description:** The course provides the knowledge and skills required as part of a multidisciplinary team to provide comprehensive services for young children with special needs. Students will investigate working collaboratively within the educational settings using various models. The course will highlight techniques to work with and support family members. In addition, students will explore strategies for collaborating with community service providers for therapies, health services, early childhood mental health, and adaptive/assistive technology. Teachers will develop skills in effective team-building, leadership development, communication, problemsolving, advocacy and decision-making.

### **ECE 3650 - Curriculum in Inclusive Settings: K-3rd**

**Credits:** 3

**Prerequisite(s):** ECE 2400, ECE 2600, SED 3650

**Description:** In this course students will examine the skills necessary to accommodate and support students in Kindergarten through 3rd grade with special needs using a variety of approaches in early childhood special education. Students will demonstrate these skills in a required 30 hour field experience placement. The course builds on the content presented in previous courses and focuses on the creation of appropriate accommodations, the integration of accommodations into a general education classroom, the legal requirement for accommodations, and the roles of the general and special education teachers within the Least Restrictive Environment (LRE) in primary (K-3) inclusive settings. Guidelines for writing IEPs, adapting activities for young children with special needs, record keeping, collaborating with families, assessment teams, and general education teachers are included.

### **ECE 3750 - The Young Culturally and Linguistically Diverse Learner**

**Credits:** 3

**Prerequisite(s):** ECE 3150

**Description:** The course is designed to provide a practical and theoretical knowledge base to support the literacy and language acquisition of children (preschool to age 8) whose primary language is not English. Students will learn to design developmentally effective curriculum, instruction and assessment for learners who are culturally and linguistically diverse. Focused observation and participation sessions, which allow teacher candidates to interact with students and observe oral language development within an authentic

learning environment, will be required at a designated elementary school close to campus. A supervised practicum will be required.

### **ECE 3860 - Cultural Socialization of Children**

**Credits:** 3

**Description:** This course enables students to develop positive, respectful and inclusive relationships with young children and families of diverse cultures. This course is reflective of the diverse cultures represented in the community; African Americans, Asian Americans, Hispanic Americans and Native Americans. Students will analyze how socialization in each of these cultures affects children's development, family systems, educational practices, child discipline, beliefs, traditions, identities and values. Contributions of each of the cultures will be examined. Individual variations including socio-economic status, gender, family structure, language and learning styles will be investigated. The course has a multi-disciplinary approach; integrating history, anthropology, psychology, sociology, biology and education.

**University Requirement(s):** Multicultural

### **ECE 4000 - Differentiation of Literacy Instruction**

**Credits:** 3

**Prerequisite(s):** ECE 3150

**Description:** This course is designed to extend students' knowledge of differentiated literacy instruction, literacy proficiencies, and effective teacher-student mediation for whole class and individual reading and writing lessons. Students will learn to make decisions about the use of evidenced-based assessment and instructional strategies for young children in K-2 classrooms. The components of proficient literacy and their relationships to instructional decision-making will be emphasized. Students will learn to plan authentic and engaging literacy instruction that contributes to all children's identities as engaged and successful readers and writers.

### **ECE 4330 - Science, Health, and Mathematics for the Young Child**

**Credits:** 3

**Prerequisite(s):** PSY 1800; completion of General Studies requirements in Quantitative Literacy and Natural and Physical Sciences; and junior standing.

**Description:** This course emphasizes the practical application of methods used by teachers of young children to build appropriate knowledge and conceptual foundations for science, health, and mathematics. Students will make decisions regarding planning, implementing, and evaluating lessons and activities appropriate for children through the third grade by utilizing the Colorado model content standards.

### **ECE 4340 - Math and Science: Ages 5-8**

**Credits:** 3

**Prerequisite(s):** ECE 3140

**Description:** In this course, students will develop a comprehensive understanding of effective mathematics and science instruction for children ages 5 - 8. This course will build on student understanding

of mathematics and science content to include research-based teaching practices appropriate for addressing the needs of young children in elementary school. It includes analysis of state and national mathematics and science standards in order to align instruction that supports and promotes children's understanding.

### **ECE 4350 - Senior Experience in Early Childhood Education**

**Credits:** 3

**Prerequisite(s):** ECE 3150

**Description:** This culminating course is designed to prepare an Early Childhood professional in the non-licensure concentration of the major. Students will learn about the purpose and procedures of Early Childhood action research. This course presents an opportunity for the student to demonstrate an in-depth understanding of a self-selected area of study relevant to the field. Students will design and implement a project that supports their professional development in the field of Early Childhood Education.

**University Requirement(s):** Senior Experience

### **ECE 4360 - Cultural Influence on the Socialization of Children**

**Credits:** 3

**Description:** This course examines the socialization of children using a multidisciplinary approach, e.g., anthropology, psychology, sociology, biology, and education. Emphasis is on the study of human attachment, modeling and social learning theory. From this base the student analyzes the effect that cultural and socialization patterns have on the family and the individual's development.

### **ECE 4370 - Developmentally Effective Practice III: Teaching in the Content Areas**

**Credits:** 4

**Prerequisite(s):** ECE 3150

**Description:** In this course, students use state and national standards, technology, and available resources to develop a sequenced, cohesive, and developmentally effective learning segment integrating content areas of the primary curriculum. Classroom management and organization considerations, appropriate use of technology, varied assessments, and considerations for children's diverse needs will be examined and integrated into the learning segment plan. Developmentally effective teaching strategies will be analyzed for implementation appropriate to the context of each lesson. Social studies and science content areas will provide the foundational theme of the learning segment. This course includes a 45-hour practicum in a designated primary classroom under the supervision of a cooperating teacher and a university supervisor.

### **ECE 4390 - Student Teaching and Seminar: Early Childhood (Preschool through Third Grade)**

**Credits:** 6,12

**Prerequisite(s):** Completion of all requirements of the major, Early Childhood licensure program and general studies. Initial sign-off on the program requirement by the education advisor is required.

**Description:** This course requires student teaching assignments in an accredited public or private school as follows: One assignment in

either pre-K or K grade levels for 8 weeks and one assignment in either 1st, 2nd or 3rd grade levels for 8 weeks for a total of 16 weeks. Both student teaching experiences require increasing responsibility for the teaching, supervision and direction of a group of learners. Teacher candidates are required to complete a teacher work sample, documenting impact on student learning and attend 15 hours of seminars. College supervisors provide regularly scheduled observations, seminars and conferences which support work sample development and standards-based proficiency. Upon completion of this course, teacher candidates must be minimally rated as "proficient" in all Performance Based standards for Colorado teachers to receive MSU Denver recommendation for licensure.

**University Requirement(s):** Senior Experience

### **ECE 4395 - Student Teaching and Seminar: Early Childhood Special Education (Preschool through Third Grade)**

**Credits:** 6 or 12

**Prerequisite(s):** ECE Teacher licensure candidates must have successfully completed SED 3750, ECE 3650, and all other course and field experience requirements of the Early Childhood Special Education endorsement program, and have Senior Standing.

**Description:** Supervised student teaching requires a 16-week placement in which the student assesses, plans, and implements learning environments and instructional support for young children, birth to eight years old with exceptionalities. Candidates apply and synthesize theory and pedagogy while demonstrating best practices and skills in early childhood settings. University supervisors provide regularly scheduled observations, seminars and guidance on the development of the Teacher Work Sample or other MSU Denver OCEP-approved final evaluation project.

**University Requirement(s):** Senior Experience

### **ECE 4415 - Early Childhood Residency I**

**Credits:** 7

**Prerequisite(s):** ECE 3150, ECE 3610

**Prerequisite(s) or Corequisite(s):** ECE 3350, ECE 3750, ECE 4340

**Description:** This clinical residency requires three full instructional days per week in an assigned accredited public or private early childhood classroom. The residency includes opportunities to synthesize content from all previous coursework, including: professionalism; designing, implementing and assessing instruction; student motivation and engagement; and collaboration with colleagues and families. Application of this content is enhanced by the sequential teaching experience. The teacher candidate is an active participant in the school community through close observation of the mentor teacher, collaborative practice with the mentor teacher, and/or supervised independent practice. Concepts and skills learned in concurrent coursework are a particular focus in this residency.

### **ECE 4425 - Early Childhood Residency II**

**Credits:** 9

**Prerequisite(s):** ECE 4415

**Corequisite(s):** ECE 4370

**Description:** This culminating clinical residency requires four full instructional days per week in an assigned accredited public or

private early childhood classroom. Close collaboration between the candidate and mentor teacher will occur in a variety of ways, including the candidate taking the role of lead teacher. The candidate will assume responsibility for all functions of the classroom, including overall design and implementation of instruction and assessment in all curricular areas, maintenance of productive classroom environment tailored to the needs of diverse learners, communication with colleagues and families, and integration of technology to improve student learning. Knowledge and skills gained in the corequisite ECE 4370 course concerning content integration and the use of specific instructional strategies for developing cultures of thinking in the classroom are practiced, and the teacher candidate evaluates these practices in light of student achievement.

**University Requirement(s):** Senior Experience

## **Economics**

### **ECO 1040 - A Citizen's Guide to Economics**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests

**Description:** This course introduces students to basic economic concepts and reasoning. Course topics include market analysis, the role of the government in the economy, the monetary system, and international economics. A key feature of the course is the application of economic reasoning to real-world problems.

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** HON 1041

### **ECO 1985 - Introduction to Business Careers Internship**

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism. *Note: The Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** ACC 1985, BNK 1985, CIS 1985, FIN 1985, MGT 1985, MKT 1985

### **ECO 2010 - Principles of Macroeconomics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; AND any 1000-level MTH course.

**Description:** This course offers an introductory analysis of the economy as a whole. Course topics include measuring economic performance and exploring the determinants of long-run economic growth. Students learn the role and impact of macroeconomic policies such as taxes, government spending, and actions taken by the Federal Reserve. This course applies macroeconomic principles and analysis to current events and problems as well as exploring the impact of the macroeconomy on the human experience.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** HON 2010

## ECO 2020 - Principles of Microeconomics

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; AND any 1000-level MTH course

**Description:** This course offers an introductory analysis of economic decision making in a market system. The roles, actions, and interactions of consumers, firms, and the government are explored. Market failure and government failure are also considered.

Microeconomic principles and analysis are applied to current events and problems and are used to explore human behavior.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** HON 2020

## ECO 2150 - Quantitative Methods in Economics

**Credits:** 3

**Prerequisite(s):** MTH 1310 or MTH 1110 or MTH 1400; AND either ECO 2010 or ECO 2020. A grade of "C-" or better is required for all prerequisites.

**Description:** This course studies the quantitative methods that are commonly used to develop, understand, and apply economic analysis. The course will combine economic theory with quantitative tools to give students a deeper understanding of economic modeling.

## ECO 3010 - Intermediate Microeconomics

**Credits:** 3

**Prerequisite(s):** ECO 2020; AND either MTH 1110 or MTH 1111 or MTH 1310 or MTH 1311 or MTH 1400 or MTH 1410

**Description:** This course analyzes production, price, and distribution theory within a microeconomic framework. Studies include value and distribution theories under conditions of varying market structures.

Topics will also include consumer theory; competitive, oligopoly, and monopoly pricing and output behavior; as well as pricing of factors of production and welfare theory.

## ECO 3020 - Intermediate Macroeconomic Theory

**Credits:** 3

**Prerequisite(s):** ECO 2010 with a grade of "C-" or better

**Description:** The course is a survey of major aggregate economic models. Emphasis is on the role of consumption, investment, and government decisions on aggregate economic activity. Topics include an analysis of consumption and investment decisions, income determination models, monetary and fiscal policy, and economic growth.

## ECO 3100 - Money and Banking

**Credits:** 3

**Prerequisite(s):** ECO 2010

**Description:** The study of money as a policy variable affecting economic activity. Money is examined both in its role in exchange and as an instrument of economic policy. The Federal Reserve System, money supply, money demand, and their respective effects on macroeconomic activity are stressed.

## ECO 3150 - Econometrics

**Credits:** 3

**Prerequisite(s):** ECO 2020 and MTH 1210. A grade of "C-" or better is required for all prerequisites.

**Description:** This course applies mathematical techniques to problems in economics. Emphasis is on application rather than computational methods of mathematical rigor. The problems of acquiring, measuring, and using economic data are examined.

## ECO 3160 - Business and Economic Forecasting

**Credits:** 3

**Prerequisite(s):** ECO 2010 OR ECO 2020; AND MTH 1210 OR CIS 3300

**Description:** This course is designed to cover the forecasting process and the techniques in order to prepare you adequately in accordance with the growing need for such skills in the real-world. We will first start with econometric theories behind the techniques. You will learn how to examine the data and how to prepare data prior to forecasting. Various useful forecasting techniques will be introduced to improve the quality of forecasting.

## ECO 3200 - Economic History of the U S

**Credits:** 3

**Prerequisite(s):** ECO 2010

**Description:** This course examines historical trends in American economic organizations and institutions and their development from colonial times to the present. Topics include problems of national and regional industrial development, economic stability, and trends in income distribution.

## ECO 3250 - Labor Economics

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** The study of the topics related to the supply of labor, the allocation of labor among uses, the extent and incidence of unemployment, and the determination of wages. Concentration is on application of economic theory to understand the behavior of labor and problems of labor markets.

## ECO 3450 - Environmental Economics

**Credits:** 3

**Prerequisite(s):** ECO 2020 or ECO 1040

**Description:** An economic analysis of the causes and consequences of environmental degradation and of public policy measures designed to preserve, protect, and enhance human environments.

## ECO 3500 - Managerial Economics

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** This course applies economic theory to the decision-making process faced both by private and public enterprise. The major emphasis is to provide the theory and tools essential to the

analysis and solution of those problems which have significant economic consequences, both for the firm and the society at large.

### **ECO 3550 - Global Economics and International Trade**

**Credits:** 3

**Prerequisite(s):** ECO 2010 or ECO 2020

**Description:** The course looks at the fundamental economic concepts needed for understanding international economic relationships.

Topics addressed include international trade theory, capital movements, international monetary institutions, balance of payments adjustments, and the impact of trade policies on economic development and growth.

### **ECO 3600 - Economics of Race and Gender**

**Credits:** 3

**Prerequisite(s):** ECO 1040 or ECO 2010 or ECO 2020; or permission of instructor

**Description:** This course applies the tools of economic analysis to issues that relate to African Americans, Hispanic Americans, and women. The course analyzes labor markets and how occupational choices and earnings vary systematically by these groups of color and by gender. The course also examines in detail the intended and unintended consequences of several policies that have addressed this situation. Finally, economic tools are applied to non-labor market behavior and are used to examine other outcomes that vary by race, ethnicity and gender.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** GWS 3650

### **ECO 3700 - Political Economy of the Middle East and North Africa**

**Credits:** 3

**Prerequisite(s):** ECO 1040 or ECO 2010

**Description:** This course covers the economic development issues facing the Middle East and North Africa. Students learn about the social, political, and economic issues that are relevant to this region as well as its importance as an energy source to the rest of the world. The course examines how instability in this region can spill over into the global economy through higher oil prices.

*Note: Credit will be granted for only one prefix: ECO or HON.*

**Cross Listed Course(s):** HON 3705

### **ECO 3800 - Development Economics**

**Credits:** 3

**Prerequisite(s):** ECO 1040 or ECO 2020

**Description:** This course provides a comprehensive framework for analyzing the issues of development from an economic perspective. Students examine the components of development that economists typically study, including economic growth, income inequality, poverty, population growth, and the intersections between growth and the environment, education, and health. Additionally, students explore the special characteristics of land, labor, and credit markets in rural areas of developing countries.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **ECO 3850 - Geopolitics and Economics of World Oil Markets**

**Credits:** 3

**Prerequisite(s):** ECO 2010

**Description:** The Geopolitics and Economics of World Oil Markets will cover and stress the importance of oil in the global economy from the early days to the present. The world economy has gone through a number of oil shock, some demand and some supply driven, and has adjusted but not without a cost. In the recent past, oil prices reached levels that surpassed the peaks of the late 1970s and crashed again to the low 30s. The volatility in global oil markets impacts the US and the world economy and can lead to sudden capital flows that reverberates through the global financial markets. The geopolitics of oil is a complex mix of economics and politics which impacts the oil producing and consuming nations. The course will also explore the surge in US oil production due to shale and fracking which upended the status quo and established the US as an emerging force in world oil markets and looks at the economics of alternatives and to what extent they can displace oil.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** PSC 3850

### **ECO 3980 - Internship in Economics**

**Credits:** 1-15

**Prerequisite(s):** Major in Economics; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **ECO 4100 - Sports Economics**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** This course applies basic price theory principles to US and international professional sports and intercollegiate sports. Supply and demand for sports is examined with an emphasis on sport market outcomes, such as league formation and the desirability of competitive balance. Students will understand how different market structures determine franchise revenues and player salaries. Students will recognize how collective bargaining theory applies to professional athletics. Public policy is evaluated as it relates to tax/publicly-financed stadiums and franchise subsidies. An understanding of the workings of intercollegiate athletics is emphasized.

### **ECO 4200 - Game Theory**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** This course provides students with a basic understanding of game theory as it applies to economics, politics, biology, and everyday life. Game theory uses quantitative analysis to model and evaluate circumstances of interdependent decision-making: how one's actions affect others, other's actions affect you, and anticipating each other's actions. Emphasis will be placed on using game theory tools to analyze various issues and to help students understand how the real world can be explained using these tools.

#### **ECO 4300 - Public Finance**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** This course analyzes the effects of taxation, government expenditures, fiscal policy, and public debt on the resource allocation and income distribution of society. Topics included in the course are taxation, pricing of public services, intergovernmental fiscal relations, and macroeconomic issues in public finance.

#### **ECO 4400 - Industrial Organization and Public Policy**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** The course examines the structure, conduct, and performance of American and foreign industries. Questions of public policy in dealing with problems created by industrial concentration, including the regulation of public utilities, are examined. Industries are measured against the yardstick of the public interest.

#### **ECO 4450 - International Macroeconomics**

**Credits:** 3

**Prerequisite(s):** ECO 3550 or ECO 3020

**Description:** The course will use general equilibrium analysis to provide the foundation for international finance, the composition of international transactions, and the determination of real national income and its distribution among factors of production. This theoretical framework is then applied to a host of economic problems. The alternative approaches to balance of payments equilibration are then explored in depth.

#### **ECO 4600 - History of Economic Thought**

**Credits:** 3

**Prerequisite(s):** ECO 3010, ECO 3020, ECO 3150; senior standing; and completion of General Studies requirements.

**Description:** Survey of the development of economic thought from ancient to modern times. Topics include the classical school from Smith through Mill, Marxian economics, the marginalists, institutional economics, and Keynesian Macroeconomics.

**University Requirement(s):** Senior Experience

#### **ECO 4650 - Advanced Macroeconomics**

**Credits:** 3

**Prerequisite(s):** ECO 3020 or ECO 3100

**Description:** The course analyzes monetary models and money as a policy determinant and its place in national and international economics. Topics include the importance of interest rates, the effectiveness of monetary and fiscal policy, the examination of portfolio balance models, and international models.

#### **ECO 4700 - Law and Economics**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** This course focuses on the interaction between economics and the law. Topics include the effect of economic theory on the development of common law, the economic analysis of property, contract, and tort law, and the effect of legal analysis on economic and political institutions.

#### **ECO 4750 - The Economic Approach to Politics**

**Credits:** 3

**Prerequisite(s):** ECO 2020

**Description:** The course will focus on the use of economic theory to analyze political decision making. This rational choice theory approach will examine such topics as voting rules and behavior, legislatures, bureaucracies, courts, interest groups and public policy outcomes.

#### **ECO 4800 - Economic Policy Analysis**

**Credits:** 3

**Prerequisite(s):** ECO 3010 AND ECO 3020; ECO 3150 or ECO 3160; and Senior Standing

**Description:** This course exposes students to the tools of economic policy analysis by applying these tools to a specific field of economics such as, for example, monetary and fiscal policy, international economics, development economics, law and economics, or public economics. The course describes the scientific method in economics: developing a testable research question, writing a literature review, collecting data, testing the hypothesis, and writing the results. To illustrate this scientific research process, students are exposed to scholarly academic research papers in the specific field of economics that the course will cover that semester. In this course, students write an exhaustive scholarly literature review on a topic that fits within the specific field of economics that will be covered that semester. This literature review is meant to be a capstone experience that synthesizes the student's prior learning and applies it to evaluate the literature on specific economic policy research question.

**University Requirement(s):** Senior Experience

### **Educational Technology**

#### **EDT 2050 - Instructional Design Thinking**

**Credits:** 3

**Description:** This course serves as an introduction to instructional design theories and practices. It introduces different instructional

design models, management, assessment, curriculum design & development, and instructional design pathways. Design thinking process is integrated throughout the course. It also includes intensive study of both practical instructional design processes and applications in order to solve real world instructional challenges.

*Note: This course is NOT designed to meet teacher licensure technology requirement.*

### **EDT 2060 - Digital Life and Learning**

**Credits:** 3

**Description:** Digital Life and Learning explores the vast landscape of instructional design issues and considerations that span beyond established development models and theories. This course empowers students through the study of responsible digital citizenship, social media, a deep understanding of how changing modalities affects design strategies, and the complexities of developing instruction in a digital landscape. The course culminates with real world application of gained knowledge and skills through the creation a digital portfolio, resume, and practicing interview skills.

*Note: This course is not designed to meet the teacher licensure technology requirement.*

### **EDT 2100 - Fundamentals of Instructional Technologies**

**Credits:** 3

**Prerequisite(s):** Literacy and software application skills equivalent to CMS/CSS 1010 or 1080 (as evidenced by previous coursework in high school or college, work, personal experience, or Permission of instructor)

**Description:** This course is designed to provide preservice teachers with skills and experiences that will allow them to effectively and appropriately integrate technology into teaching and learning activities. This course will focus on actively participating in projects that model effective technology integration, researching and developing classroom lessons and activities that utilize emerging technologies, and using technology to support professional development activities.

### **EDT 2200 - Fundamentals of Networked Learning Environments**

**Credits:** 2

**Prerequisite(s):** EDT 2100 or Permission of instructor

**Description:** Students enrolled in this course will focus on the concepts and terminologies of multi-platform (MacOS and Windows) networked learning environments for the purpose of instruction in K-12 educational and instructional training settings. Participants will learn networking concepts, terminology, vocabulary, and structures which will enable communication among teaching and technical professionals. Students will learn to apply critical thinking to situations and scenarios which hamper the implementation and utilization of networks in learning environments. Students will be exposed to copyright law and fair-use guidelines including the implementation and enforcement of Acceptable Use Policies (AUPs). This course will also explore legal and ethical usage of networks, including accessibility issues with adaptive software.

### **EDT 3010 - Integrating Educational Technology into Teaching**

**Credits:** 3

**Description:** This course is designed to give prospective teachers an overview of the advancement of technology in this digital age and its impacts on K-12 education. Students will explore emerging educational technologies and survey guidelines for selecting, managing, and evaluating technology tools to enhance teaching and learning. In addition to gaining skills in making multimedia projects, creating a web-based learning environment and using interactive technologies such as interactive whiteboard, students will also learn about issues such as copyrights, e-plagiarism, cyber-bullying, and security, etc. Students who finish this course successfully will become leaders in disseminating innovative ways of integrating technology in schools and through personal learning networks (PLNs).

*Note: Credit will be granted for only one prefix: EDT or HON.*

**Cross Listed Course(s):** HON 3010

### **EDT 3020 - Educational Technology for Early Childhood Educators**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ECE 2950

**Description:** An overview of the appropriate use and application of educational technology in a digital-aged early childhood classroom is provided. Students will learn the theories, skills, strategies, and tools that support the use of educational technology to facilitate effective teaching, learning, and assessment. Students will apply knowledge of child development and developmentally effective practice to develop instructional lesson plans that incorporate various types of technologies that have been shown to increase student engagement and learning. Effective use of interactive boards will be integrated throughout the course.

### **EDT 3050 - Games, Applications, and Instructional Interaction**

**Credits:** 3

**Description:** This course explores effective and structured procedures for conceptualizing, designing and incorporating game-based applications into the process of instructional design across formal and informal environments. Students will learn about game-based theory and trends, and acquire the foundational design and development skills necessary for deploying applications in a range of professional and educational settings.

*Note: This course is not designed to meet the teacher licensure technology requirement.*

### **EDT 3060 - Instructional Multimedia**

**Credits:** 3

**Description:** This course guides students through the process of applying design principles and multimedia learning theories to the design and development of effective digital multimedia instruction. Through the context of real world application, students explore principles of multimedia learning, design processes, typography, graphic design, audio and video production, as well as theoretical foundations, and multimedia design processes.

*Note: This course is not designed to meet the teacher licensure technology requirement.*

## **EDT 3610 - Applications of Educational Technology**

**Credits:** 2

**Prerequisite(s):** Literacy and software application skills equivalent to CIS/CSS 1010 and CIS/CSS 1080 or permission of the instructor.

**Description:** This course is designed to prepare teacher candidates to make decisions regarding the role of technology in support of content standards, learning, and assessment in P-12 education. Teacher candidates select, operate, and use media, computing, Internet, electronic interactive whiteboard, and related technologies to facilitate teaching/learning, communication, professional development, and productivity to meet the educational needs of diverse groups of learners.

## **EDT 3620 - Applications of Interactive Whiteboards in Education**

**Credits:** 1

**Prerequisite(s):** Literacy and software application skills equivalent to CIS/CSS 1010 or CIS/CSS 1080, as evidenced by previous coursework in high school or college, work, personal experience, or permission of the instructor.

**Description:** This course is designed to equip teacher candidates with knowledge and skills of interactive whiteboards in order to create effective and interactive lessons and activities that enhance teaching and learning in the K-12 classrooms, as well as to meet the need of most K-12 schools. Students will learn the basics and applications of interactive whiteboards, including SMART Board and Promethean Board commonly used in K-12 schools. Students will also apply the knowledge and skills of interactive whiteboards to creating interactive lessons, activities, and assessments.

## **EDT 3850 - Fiscal Resources for Learning Environments**

**Credits:** 3

**Prerequisite(s):** Literacy and software application skills equivalent to CMS/CSS 1010 or 1080 (as evidenced by previous coursework in high school or college, work, personal experience, or permission of instructor)

**Description:** In this course, students will work collaboratively to write funding proposals for a current request for proposal (RFP). Participants will learn how to write a persuasive narrative, supported by a strong needs analysis, plan for implementation, budget, and evaluation. Special attention will be given to formative and summative evaluations, focusing on evaluation of implementation as well as impact of the proposed project. At the end of the semester, students will submit their proposals to funding sources.

## **EDT 4050 - Emerging Issues and Innovation**

**Credits:** 3

**Description:** This course examines current trends and issues relating to the everyday practice of instructional design, including the application of universal design. Students are provided opportunities to review published instructional design research, thought leadership, and job descriptions in K-12, Higher Education, and corporate settings, as well as debate findings with practicing instructional designers in order to understand key trends in the field. This course

also guides students to examine instructional design best-practice and apply one or more theories/models to real-world instructional projects in an effort to innovatively evolve/redefine instructional design and/or the role of instructional designers.

*Note: This course is not designed to meet the teacher licensure technology requirement.*

## **EDT 4060 - Capstone for Instructional Design and Technology**

**Credits:** 3

**Prerequisite(s):** EDT 2050, EDT 2060, EDT 3060

**Description:** This capstone course is intended to provide students with the opportunity to develop and implement instructional design learning experiences and processes. As a fundamental component of the Capstone course, students will be responsible for completing a capstone project that demonstrates their understanding of the topic they select for their project with the multicultural, accessible, and diversity considerations as well as how the topic can be applied to real life practices. The capstone project also provides the opportunity for students to demonstrate independence and originality, to plan and organize a project over a period of time, and to put into practice some of the concepts and skills introduced in all other courses of the program.

## **EDT 4090 - Instructional Prototyping**

**Credits:** 3

**Prerequisite(s):** EDT 2050, EDT 2060

**Prerequisite(s) or Corequisite(s):** EDT 3050, EDT 3060, EDT 4050

**Description:** This capstone course is intended to provide students with exposure to a professional work setting related to instructional design. Students will complete 135 hours working in the field of instructional design. Students will assist a professional instructional designer or design team in order to gain insight and experience. Students will also reflect on their experience and demonstrate their learning outcome through a portfolio.

*Note: This course is not designed to meet the teacher licensure technology requirement. This course is designed for students enrolled in Instructional Technology post-baccalaureate certificate program.*

## **Electrical Engineering Technology**

### **EET 1001 - Electronics: An Introduction**

**Credits:** 3

**Prerequisite(s):** High school algebra

**Description:** This course introduces physical foundations of electricity, electronics, and computers, emphasizing hands-on application of theory. Engineering ethics, technology related careers and the effect of technological changes on modern society will also be discussed. Students will assemble specific electronic projects.

### **EET 1040 - Introduction to Engineering**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** This course is an introductory engineering course

exposing students to a cross section of topics in contemporary civil, electrical and mechanical engineering disciplines to assist them with their education career choices. Students are taught to work in teams, introduced to the design process, utilize math and computer programs to analyze raw data and properly display their results in a presentation to their peers. The history of the engineering profession and its relation to current national, social, industrial, ethical, and international issues and problems will be discussed.

*Note: Credit will be granted for only one prefix: CET, EET, or MET.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

**Cross Listed Course(s):** CET 1040, MET 1040

### EET 1140 - Circuits I

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics preassessment placement test or higher level math course, with a grade of "C" or better.

**Description:** This course covers DC circuit analysis, including mesh analysis, nodal analysis, Thevenin conversion, Norton conversion, power, magnetism and magnetic circuits, capacitance, and inductance. An introduction to electrical laboratory procedures and the measurement of basic circuit parameters is also included.

### EET 1150 - Circuits II

**Credits:** 4

**Prerequisite(s):** EET 1140 and (MTH 1120 or MTH 1400 or higher level math course), with grades of "C" or Better

**Description:** This course is a continuation of EET 1140, using trigonometry and complex algebra. Studies include single-time constant circuits, phasors, and the  $j$  operator, RLC circuits with sinusoidal, steady-state sources, impedance and admittance, AC formulation of classic network theorems, complex network equations, complex power, frequency response, transformers, and two-port network models.

### EET 2000 - Electric Circuits and Machines

**Credits:** 3

**Prerequisite(s):** MTH 1120 or MTH 1400, PHY 2020 or PHY 2331, with grades of "C" or better

**Description:** This course introduces electric circuits for non-EET majors. It covers DC and AC circuits, generators, motors, transformers, elementary electronic devices, and circuits.

### EET 2145 - Electronics

**Credits:** 3

**Prerequisite(s):** EET 1150 or EET 2000, and CHE 1100 or CHE 1800, with a grade of "C" or better for all prerequisites

**Corequisite(s):** EET 2165

**Description:** Students in this course will study the theory, modeling and application of semiconductor based electronic circuits. Devices studied include: diodes, bipolar junction transistors, MOS field effect transistors, thyristors and operational amplifiers. The student

will learn to integrate electronic devices in applications such as filtering, amplification, and oscillation.

### EET 2165 - Electronics Laboratory

**Credits:** 1

**Prerequisite(s):** EET 1150 or EET 2000, and CHE 1100 or CHE 1800, with a grade of "C" or better for all prerequisites

**Corequisite(s):** EET 2145

**Description:** The student will develop the laboratory skills necessary for integration of electronic devices in applications such as filtering, amplification, and oscillation. The student will integrate the lecture content of EET2145 in the practical, hands-on laboratory exercises developed in this course.

### EET 2310 - Digital Circuits I

**Credits:** 3

**Prerequisite(s):** An intermediate algebra course or one-and-one-half years of secondary school algebra or equivalent and appropriate score on the mathematics preassessment placement test or higher level math course, with a grade of "C" or better

**Description:** This course covers the analysis and design of logic circuits using Boolean algebra and Karnaugh maps. Adders, comparators, decoders, encoders, multiplexers and other logic circuits are also studied. Flip-flops, memories, analog-to-digital (ADC) and digital-to-analog converters (DAC) are used to design simple digital circuits. Computer architecture is introduced.

### EET 2340 - Technical Programming Applications

**Credits:** 3

**Prerequisite(s):** MTH 1400 or (MTH 1110 and MTH 1120) or higher level math course, with a grade of "C" or better

**Description:** This is a beginning-level course exploring basic computing programs used to solve engineering applications problems from the various areas of civil, electrical and mechanical engineering technology.

### EET 2350 - Advanced Technical Programming

**Credits:** 3

**Prerequisite(s):** MTH 1400 (or MTH 1110 and MTH 1120) (or a higher level math course) with a grade of "C" or better

**Description:** This is an advanced-level programming course using C programming and C++ languages. Methods for general solving circuit, electronics and general engineering problems using the two programming languages are studied.

### EET 3010 - Industrial Electronics

**Credits:** 4

**Prerequisite(s):** EET 1150 or EET 2000 with a grade of "C" or better

**Description:** This course covers the application of transistors, op amps, and other electronic devices, both analog and digital. This course is for Mechanical Engineering Technology majors, EET certificates, and EET minors. This course does not count towards a major in EET.

### **EET 3110 - Transform Methods in Circuit Analysis**

**Credits:** 4

**Prerequisite(s):** EET 1150 and MTH 2410 with grades of "C" or better

**Description:** This is an advanced-level circuit analysis course introducing the use of classical ordinary differential equations combined with mathematical transforms to solve complex electronic networks. MATLAB, or equivalent, software is introduced and used as a tool for circuit analysis throughout the course.

### **EET 3120 - Advanced Analog Electronics**

**Credits:** 4

**Prerequisite(s):** EET 2145, EET 3110, and MTH 2410 with grades of "C" or better

**Description:** This course is an advanced analog electronics course with emphasis on the operational amplifier and other advanced analog circuits. Advanced mathematical techniques and computer simulations are developed for circuit analysis.

### **EET 3330 - Digital Circuits II**

**Credits:** 3

**Prerequisite(s):** EET 2310 with a grade of "C" or better

**Description:** This course is a continuation of EET 2310. It covers the analysis and design of sequential (counters and shift registers) logic circuits. Programmable Logic Devices (PLD) and associated Computer Aided Design (CAD) software are used to implement digital circuits using the schematic design entry method.

### **EET 3370 - Digital Circuits for Advanced Manufacturing**

**Credits:** 3

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics placement test or higher level math course, with a grade of "C" or better

**Description:** This course covers the analysis and design of logic circuits using Boolean algebra and Karnaugh maps. Combination logic elements such as adders, comparators, decoders, encoders, multiplexers and other logic circuits are also studied. Next, Flip-flops, and sequential (counters and shift registers) logic circuits are studied and used to design simple digital circuits utilizing Programmable Logic Devices (PLD) and associated Computer Aided Design (CAD) software employing the schematic design entry method. Computer architecture is introduced.

### **EET 3380 - Technical Programming for Advanced Manufacturing**

**Credits:** 3

**Prerequisite(s):** MTH 1400 or (MTH 1110 and MTH 1120) or higher level math course, with a grade of "C" or better

**Description:** This is an upper-level programming course using the C programming language and National Instruments Lab View virtual instrumentation software. Methods for solving engineering problems using the C programming language are studied. The use of Lab View

for the creation of virtual instrumentation in simulations and data acquisition is introduced.

### **EET 3410 - Electric Machines**

**Credits:** 3

**Prerequisite(s):** MTH 2410 and either EET 2145 or EET 3010 with grades of "C" or better

**Description:** This course studies motors and generators and their applications. Topics include: magnetism and magnetic circuits, voltage and torque generation, DC motors, DC generators, single and three phase transformers, and synchronous alternators

### **EET 3420 - Electric Power Distribution**

**Credits:** 3

**Prerequisite(s):** MTH 2410 and either EET 2145 or EET 3010 with grades of "C" or better

**Description:** This course studies techniques and equipment employed in electric power distribution and control.

### **EET 3430 - Power Generation Using Renewable Energies**

**Credits:** 3

**Prerequisite(s):** MTH 2410 and either EET 2145 or EET 3010 with grades of "C" or better

**Description:** This is an introductory course in electrical power generation that examines various types of renewable energy sources. While examining many developing technologies, the course concentrates on the design and application of photovoltaic and wind electrical generation. It examines conventional synchronous and induction machines, as well as modern doubly-fed induction machines and their application in wind generation. It also provides an introduction to inverter technology and methods of interfacing renewable energy power plants with the electrical power grid.

### **EET 3620 - Analog and Digital Communications**

**Credits:** 3

**Prerequisite(s):** MTH 2410 and either EET 2145 or EET 3010 with grades of "C" or better

**Description:** This course is an introduction to communication systems. Topics include: information theory, channel capacity, A/D and D/A techniques, modulation (AM, FM, and digital), noise sources, quantization, and transmission lines including Smith Charts.

### **EET 3630 - Electromagnetic Fields**

**Credits:** 3

**Prerequisite(s):** EET 3110, EET 3620, and MTH 2410 with grades of "C" or better

**Description:** This course covers mathematical concepts of static and dynamic electromagnetic fields. Topics include: planewave propagation in lossless and lossy media, waveguide propagation, and radiation principles.

### **EET 3670 - Measurements for Communications Systems**

**Credits:** 3

**Prerequisite(s):** EET 2340, EET 3620, and MTH 2410 with grades of "C" or better

**Description:** Students learn to perform measurements on communication circuits, including SNR, noise figure, impedance, admittance, phase, power, frequency, spectrum analysis, and fields at high frequencies.

#### **EET 3690 - Fiber Optics**

**Credits:** 3

**Prerequisite(s):** EET 2145 and MTH 2410 with grades of "C" or better

**Description:** Fiber optics is studied, including ray propagation, emitters, detectors, connectorization and systems, FDDI, and SONET.

#### **EET 3715 - Control Systems Analysis**

**Credits:** 4

**Prerequisite(s):** EET 3110, EET 3120, and MTH 2410 with grades of "C" or better

**Description:** This course analyzes classical, linear, continuous-time control systems. Topics include: Laplace transform, Bode plots, stability, transient response, steady-state response, and the design of PID, lag, and lead compensators. The laboratory portion of the course uses the classical approach to the analysis and design of control systems.

#### **EET 3730 - Process Control Systems**

**Credits:** 2

**Prerequisite(s):** EET 1150 or EET 2000 with a grade of "C" or better

**Description:** This course is an introduction to the applications of Proportional, Integral, & Derivative (PID) controllers in the process control industry. Topics include: structure of feedback, sensors, controllers, control valves, process dynamics, timing, piping and instrument drawing.

#### **EET 3740 - Programmable Logic Controllers**

**Credits:** 2

**Prerequisite(s):** EET 1150 or EET 2000 with a grade of "C" or better

**Description:** This course is an introduction to the applications of Programmable Logic Controllers (PLC) and their programming, using ladder diagrams. Topics include: PLC usage, types, advantages and disadvantages, system overview, ladder logic programming command language and applications, networking PLC systems, and installation and troubleshooting techniques.

#### **EET 3980 - Internship in Electrical Engineering Technology**

**Credits:** 2

**Prerequisite(s):** Major in Electrical Engineering Technology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be

established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course is repeatable for a maximum of four semester hours.*

#### **EET 4020 - Digital Circuits III - Hardware Description Language**

**Credits:** 3

**Prerequisite(s):** EET 2350 or CSS 2227 or permission of instructor; and EET 3330 with grades of "C" or better

**Description:** This course covers a Hardware Description Language (HDL) which is used to design and simulate very large scale digital integrated circuits.

#### **EET 4100 - Senior Project I**

**Credits:** 1

**Prerequisite(s):** JMP 2610, EET 3120, and EET 4370 all with grades of "C" or better; and senior standing

**Description:** This is a Senior Experience, capstone course designed to teach engineering design skills to students through project based learning. The course will focus on team project incorporating the application of fundamental engineering knowledge and skills. Projects requires planning and design in consultation with faculty advisors and industry contacts. Through this course the students will learn the design process in a hands on way through conceptualization, construction, testing and presenting a deliverable project.

**University Requirement(s):** Senior Experience

#### **EET 4110 - Senior Project II**

**Credits:** 2

**Prerequisite(s):** COMM 1010, EET 4100, and EET 4340 with grades of "C" or better

**Description:** In this course, the student completes the project he or she started in EET 4100. The project is built, tested, and demonstrated. Written technical reports and oral presentations on the project are required. Part of this course involves the student working with a faculty member who acts as a consultant.

**University Requirement(s):** Senior Experience

#### **EET 4320 - Digital Filters**

**Credits:** 3

**Prerequisite(s):** EET 2340 and EET 3110, with grades of "C" or better

**Description:** This course introduces digital filters as applied in digital signal processing and sampled data control systems.

#### **EET 4330 - Data Communications**

**Credits:** 3

**Prerequisite(s):** EET 2310, with a grade of "C" or better

**Description:** This course covers methods of local and distant digital communications including: systems, standards, and hardware used for transmitting digital data either synchronously or asynchronously.

#### **EET 4340 - Interface Techniques**

**Credits:** 3

**Prerequisite(s):** EET 3330 and EET 4370 with grades of "C" or better

**Description:** This course covers interfacing techniques between computers, peripherals, and other digital circuits.

#### **EET 4370 - Microcontrollers**

**Credits:** 3

**Prerequisite(s):** EET 2350 and EET 3330 with grades of "C" or better

**Description:** This course teaches microcontroller design. Topics include: programming, monitor functions, hardware configurations, timing, analog-to-digital conversion, parallel I/O, and serial I/O.

#### **EET 4620 - Advanced Communications Systems**

**Credits:** 3

**Prerequisite(s):** EET 3620 with a grade of "C" or better

**Description:** This senior research course requires students to analyze HF, VHF, UHF, microwave, spread spectrum, optical, video, and satellite systems. Analog and digital cellular and personal communication services, including AMPS, GSM, CDMA, wireless LANs, microwave satellite communication systems, are also studied.

#### **EET 4700 - Special Topics in Electrical Engineering Technology**

**Credits:** 3

**Prerequisite(s):** EET 3120 with a grade of "C" or better

**Description:** This course identifies and researches current and emerging trends, topics, and developments in the field of electrical engineering to determine their impact on society and to identify changes in the society that could result from these new developments.

#### **EET 4710 - Digital Control Systems Design**

**Credits:** 4

**Prerequisite(s):** EET 3710 or EET 3715 with a grade of "C" or better

**Description:** Students in this course will learn the process and theory of the design of digital control systems, using classical and modern control theory. State variable feedback control laws and observers are designed.

#### **EET 4730 - Robotics**

**Credits:** 3

**Prerequisite(s):** MTH 2410, EET 3740, and EET 2145 or EET 3010 with grades of "C" or better

**Description:** This course covers the basics of design, analysis,

modeling and control of robots. The topics covered include: robot kinematics, inverse kinematics, kinetics, sensors, actuators, and the industrial applications of robotics.

## **Elementary Education**

#### **EDU 1111 - Education within Diverse Communities**

**Credits:** 3

**Description:** This course is designed to increase awareness of the diverse contexts in which elementary education is situated, given our global society. Cultural and individual variances, including sociocultural factors such as language, gender, and socioeconomic status, are investigated in order to develop respect for all elementary students, families, and school communities. The course includes examining institutional policies and practices as well as personal attitudes and beliefs that influence what occurs in elementary schools. The role of the teacher/educator in equity-oriented education is explored.

**University Requirement(s):** Multicultural

#### **EDU 2111 - Becoming an Elementary Teacher**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 2021

**Description:** This introductory course focuses on the role of the teacher in a 21st Century classroom. Students further develop critical thinking skills to examine the realities of schools in light of contemporary trends in education. Students explore expectations of professional elementary teachers in connection to state standards, state and federal regulations, and teacher evaluation trends. Topics include teachers' current roles as instructional leaders and advocates in diverse communities as well as historical, philosophical, financial, and societal foundations in elementary education. Educational and instructional innovations in elementary education are overarching themes in the course.

#### **EDU 3000 - Introduction to Education**

**Credits:** 1

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; and sophomore status.

**Description:** This course is designed to acquaint the student with the historical, philosophical, financial, legal, and societal foundations involved in elementary education in a changing society. The characteristics and requirements of the professional teacher will be clarified.

#### **EDU 3111 - Education in Diverse Communities**

**Credits:** 3

**Description:** This course is designed to increase awareness of diverse contexts within elementary education, given our global society. Cultural and individual variances, including sociocultural factors such as language, gender, and socio-economic status, are investigated in order to develop respect for all elementary students,

parents/caregivers, and school communities. The course includes examining personal attitudes and beliefs that may affect what occurs within elementary schools.

*Note: Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Multicultural

### **EDU 3120 - Education of Chicano Children**

**Credits:** 3

**Prerequisite(s):** CHS 2000

**Description:** This course presents the Chicano perspective on current public education policy and its implementation in the schools.

Examines learning and teaching differences in students and teachers.

*Note: Credit will be granted for only one prefix: EDU or CHS.*

**Cross Listed Course(s):** CHS 3300

### **EDU 3200 - Human Diversity: Applications to Multicultural Education**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; and sophomore status.

**Prerequisite(s) or Corequisite(s):** EDU 3000

**Description:** The focus of the class is to establish understanding of the four major diverse groups of students in American schools, their historical, cultural, and individual differences. This course is designed to increase student awareness of the values and beliefs, traditions, identifiers, and contributions of African Americans, Asian Americans, Hispanic Americans, Native Americans, and women. Historical, cultural, and individual variations, including socio-economic status, gender, sexual orientation, language background will be investigated to help develop respect for all students, parents, and educators in school settings. Students will discover how personal attitudes may affect expectations and decisions in the elementary school.

**University Requirement(s):** Multicultural

### **EDU 3222 - Developing Differentiated Learning Environments**

**Credits:** 3

**Description:** This course examines features of effective K-6 learning environments and management strategies designed to facilitate learning. Practices of student motivation and discipline are covered. Students are introduced to the strategies of differentiation to enhance elementary students' individual learning that contribute to all students' success. Technology as a tool for maximizing instruction in the classroom will be integrated into course work. Lesson planning is introduced, with an emphasis on differentiating both instruction and learning environments.

### **EDU 3444 - Instructional and Assessment Practices in Differentiated Classrooms**

**Credits:** 3

**Corequisite(s):** EDU 3445

**Prerequisite(s) or Corequisite(s):** EDU 3222 or EDS 3130

**Description:** This course is designed to assist teacher candidates in understanding the important relationship between effective instructional practice and assessment in the differentiated elementary classroom. Modifications of curriculum and instruction are emphasized on the basis of individual student interests, strengths and needs. Informal and formal assessment techniques are examined along with the commonalities between classroom assessments and larger scale local, district and state mandated assessments. Emphasis is placed upon collecting and utilizing assessment data to drive instruction in differentiated classrooms. Professional communication regarding assessment and instruction is also a focus of this course.

### **EDU 3445 - Field Experience: Assessment Practices in Differentiated Classrooms**

**Credits:** 1

**Corequisite(s):** EDU 3444

**Prerequisite(s) or Corequisite(s):** EDU 3222 or EDS 3130

**Description:** This field experience, as a partner with EDU 3444, requires 45 hours of field work in an assigned elementary school.

Field work involves assisting the classroom teacher and implementing appropriate classroom instruction and assessment.

Teaching multiple small group and whole class lessons is a focus of this experience. Assessments data is used to inform instructional design and implantation of lessons.

### **EDU 3460 - Introduction to the Education of the Gifted and Talented**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This class focuses on the history, myths, and characteristics of gifted and talented students as learners. It presents procedures for identification and service models, as well as teaching and learning models for appropriate curriculum.

### **EDU 3550 - Teaching Elementary School Science and Health**

**Credits:** 3

**Prerequisite(s):** EDU 3444 or SED 3820; EDU 3445 or SED 3050; SCI 2600

**Corequisite(s):** EDU 3665, EDU 3666

**Prerequisite(s) or Corequisite(s):** MTL 3600 or SED 3950; AND SCI 2610

**Description:** This course focuses on teaching science and health to K-6 students, with an emphasis on concepts and processes, and the methods pertinent to the construction of elementary science and health content. This course provides the opportunity to use assessment data to guide science and health instruction to meet the needs of diverse learners. Emphasis is placed on critical thinking, problem solving and decision making skills by exploring these ideas through hands-on experiences. Development of positive attitudes towards science and health is examined. Teacher candidates implement these instructional practices in the co-requisite field experience.

### **EDU 3640 - Basic Techniques of Instruction, Assessment and Management**

**Credits:** 3

**Prerequisite(s):** PSY 1800; EDU 2111 or EDU 3000; EDU 3111 or EDU 3200; SED 3600

**Corequisite(s):** EDU 3650, EDU 3660

**Description:** Teacher candidates are introduced to effective decision-making regarding standards and objectives, assessment and evaluation, instructional planning, teaching methodology, and classroom management. Teacher candidates will become aware of diversity in students and student learning and methods to accommodate these differences.

*Note: Teacher candidates must take EDU 3650, a 55-hour field experience in a diverse urban school, and EDU 3660 concurrently with EDU 3640.*

### **EDU 3650 - Field Experience: Basic Techniques of Instruction, Assessment and Management**

**Credits:** 1

**Prerequisite(s):** PSY 1800; EDU 2111 or EDU 3000; EDU 3111 or EDU 3200; SED 3600

**Corequisite(s):** EDU 3640, EDU 3660

**Description:** Teacher candidates are placed in a diverse multicultural, urban classroom for 55 hours to practice effective decision making regarding standards and objectives, assessment and evaluation, instructional planning, teaching methodology, and classroom management. Teacher candidates will become aware of diversity in students and their learning styles, and methods to accommodate these differences.

*Note: Teacher candidates must take EDU 3640 and EDU 3660 concurrently with EDU 3650.*

### **EDU 3660 - Teaching Writing K-6**

**Credits:** 2

**Prerequisite(s):** PSY 1800; EDU 2111 or EDU 3000; EDU 3111 or EDU 3200; and junior standing

**Corequisite(s):** EDU 3640, EDU 3650

**Description:** Teacher candidates will apply various components of a K-6 developmental writing program for literacy instruction with emphasis on the Colorado Content Literacy Standards to aid in the development of writing skills for diverse learners. This course provides teacher candidates the opportunity to apply theoretical concepts to lessons and assessments in conjunction with techniques of instruction, management and assessment.

### **EDU 3665 - Field Experience: Teaching Science, Health and Mathematics**

**Credits:** 1

**Prerequisite(s):** EDU 3444 or SED 3820; EDU 3445 or SED 3050; SCI 2600

**Corequisite(s):** EDU 3550, EDU 3666

**Prerequisite(s) or Corequisite(s):** MTL 3600 or SED 3950; AND SCI 2610

**Description:** This field experience, paired with EDU 3550 and EDU 3666, requires 45 hours of field experience at an assigned elementary school. This field work includes teaching multiple small group and whole class lessons while implementing differentiated instructional practices in mathematics, science, and/or health. Emphasis is placed

on active, hands-on lessons with discourse to facilitate constructing concepts. Data collection and analysis informs instruction.

### **EDU 3666 - Teaching Elementary School Mathematics**

**Credits:** 3

**Prerequisite(s):** EDU 3444 or SED 3820; EDU 3445 or SED 3050; SCI 2600

**Corequisite(s):** EDU 3550, EDU 3665

**Prerequisite(s) or Corequisite(s):** MTL 3600 or SED 3950; AND SCI 2610

**Description:** Teacher candidates apply appropriate academic standards and knowledge of K-6 student needs to plan evidence-based, mathematics instruction for diverse learners. Knowledge of K-6 mathematics concepts are applied to lessons designed to increase student achievement through stimulating problem solving, mathematical reasoning, and discourse. Formative and summative assessment data are utilized to plan instruction. Teacher candidates implement these practices in the co-requisite field experience.

### **EDU 3700 - Educational and Cultural Experience in Great Britain**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** EDU 3200, RDG 3110, SED 3600 and ECE 2340/2350 or EDU 3640/3650 or SED 3750 or SED 3800

**Description:** This course focuses on first hand experiences with culture and the education system in Great Britain. Students will complete field hours in schools in Great Britain and participate in cultural experiences. The focus of the course will be to compare and contrast cultural beliefs and educational philosophies, methods, and outcomes of Great Britain to Colorado.

### **EDU 4010 - Education of African American Children**

**Credits:** 3

**Prerequisite(s):** AAS 1010, EDU 3000, EDU 3200, EDU 3640, and EDU 3650

**Description:** This course analyzes the historical and contemporary factors that influence the education of African American children in the United States. Focus is on the knowledge, skills, and dispositions required by educational institutions, educators, and parents to provide an effective and equitable education for African American children. Practical application is integrated with theoretical research and conceptual information. Students who successfully complete this course will receive introductory skills and experiences as effective practitioners, reflective decision makers, and resources for the community.

*Note: Credit will be granted for only one prefix: AAS or EDU.*

**Cross Listed Course(s):** AAS 4010

### **EDU 4011 - Teaching Elementary School Social Studies**

**Credits:** 3

**Prerequisite(s):** EDU 3444 or SED 3820; EDU 3445 or SED 3950

**Description:** This course focuses on concepts and instructional practices for teaching elementary social studies in powerful and

purposeful ways. This includes methods for teaching history, geography, civics, and economics within a multicultural, global society. In addition, this course will explore the integrative nature of the social studies with an emphasis on disciplinary content, thinking, and literacy. These practices will be applied to the development of an inquiry learning experience that engages students in a series of curricular decisions that focus on instructional methods and their use in developing disciplinary content, thinking, and literacy-scaffolding pre-service teachers' knowledge development of powerful and purposeful methods for teaching the social studies.

#### **EDU 4015 - Field Experience: Teaching Elementary School Social Studies**

**Credits:** 1

**Prerequisite(s):** EDU 3444 or SED 3820; EDU 3445 or SED 3950

**Corequisite(s):** EDU 4011

**Description:** This field experience, as a partner with EDU 4011, requires 30 hours of fieldwork at an assigned placement. Field work includes observing social studies instruction, developing and teaching social studies lesson plans in accordance with Colorado academic standards and classroom needs, and analyzing elementary social studies curriculum within the local schools. Use of disciplinary inquiry, thinking, and literacy will be emphasized.

#### **EDU 4100 - Integrated Methods of Teaching Social Studies and Literacy: K-6**

**Credits:** 3

**Prerequisite(s):** RDG 3110, EDU 3640, EDU 3650; EDU 3660, or ENG 4650

**Description:** This course overviews integrated methods, materials, and curricula currently in use in elementary social studies and literacy education. Social studies concepts and skills will be explored within the framework of age-appropriate context and methods. The course will emphasize decision-making skills to foster the integration of diverse literacy skills within social studies disciplines (history, geography, economics, civics). Teacher candidates will incorporate state and national standards, use technology, develop an integrated unit which will include appropriate assessment strategies to evaluate instruction and learning.

*Note: Teacher candidates must take EDU 4105, a 55-hour field experience, and RDG 4000 concurrently with EDU 4100.*

#### **EDU 4105 - Field Experience: Integrated Social Studies and Literacy: K-6**

**Credits:** 1

**Prerequisite(s):** RDG 3110, EDU 3640, EDU 3650; EDU 3660 or ENG 4650

**Description:** This is a field experience taken concurrently with EDU 4100 and RDG 4000. Teacher candidates will spend 55 hours in a public school elementary classroom making instructional, assessment, and management decisions in reading, language arts and social studies in diverse contexts.

#### **EDU 4115 - Residency I**

**Credits:** 3-7

**Prerequisite(s):** EDU 4011, EDU 4015

**Corequisite(s):** RDG 4444

**Description:** This clinical residency requires at least three full, sequential instructional days per week in an assigned accredited public or private elementary classroom. The residency and accompanying seminar include opportunities to synthesize content from all previous coursework, including: professionalism; designing, implementing, and assessing instruction; student motivation and engagement; and collaboration with colleagues and families. The teacher candidate is an active participant in the elementary school community through close observation of the mentor teacher, collaborative practice with the mentor teacher, and/or supervised independent practice. Concepts and skills learned in RDG 4444 are a particular focus in this residency; however, the resident engages in all content areas.

#### **EDU 4116 - CLD Residency I**

**Credits:** 3-7

**Prerequisite(s):** EDU 3665, EDU 3666, EDU 3550, RDG 3222, RDG 3333, RDG 3335

**Corequisite(s):** RDG 4444

**Prerequisite(s) or Corequisite(s):** EDU 4011

**Description:** This clinical residency in a classroom with culturally and linguistically diverse (CLD) learners requires at least three full, sequential instructional days per week in an assigned accredited public or private elementary classroom with English Language Learners. The CLD residency and accompanying seminar includes opportunities to synthesize content from all previous coursework, including concentration coursework for serving CLD students: methods for teaching CLD learners; professionalism; designing, implementing, and assessing instruction for diverse learners; student motivation and engagement; and collaboration with colleagues and families, particularly diverse families. The teacher candidate is an active participant in the elementary school community through close observation of the mentor teacher, collaborative practice with the mentor teacher, and/or supervised independent practice. Concepts and skills learned in RDG 4444 are a particular focus in this residency; however, residents are engaged in all content areas.

*Note: Students are required to earn a C- or higher in order to be recommended for licensure.*

#### **EDU 4120 - Integrated Methods of Teaching Science, Health and Mathematics: K-6**

**Credits:** 3

**Prerequisite(s):** SCI 2610 MTH 2620, RDG 3110, EDU 3640, EDU 3650; EDU 3660 or ENG 4650

**Prerequisite(s) or Corequisite(s):** SCI 2620, MTL 3600

**Description:** This course presents an overview of the integrated methods, materials, and curricula currently in use in elementary science, health, and mathematics education. Promotion of positive attitudes, gender equity, inquiry, discovery, and problem-solving techniques and strategies will be stressed. Teacher candidates will make decisions based on the diverse contexts of the classroom and pupils, incorporating state and national standards, including the appropriate use of technology and development of appropriate assessment strategies to support effective instruction.

*Note: Teacher candidates must take EDU 4125, a 55-hour field experience, concurrently.*

### **EDU 4125 - Field Experience: Integrated Science, Health and Mathematics: K-6**

**Credits:** 1

**Prerequisite(s):** SCI 2610, MTH 2620, RDG 3110, EDU 3640, EDU 3650; EDU 3660 or ENG 4650

**Prerequisite(s) or Corequisite(s):** MTL 3660, SCI 2620

**Description:** This course is a field experience taken concurrently with EDU 4120. Teacher candidates will spend 55 hours in an elementary classroom practicing making instructional, assessment, and management decisions in mathematics, science, and health in the diverse contexts of a public school classroom.

### **EDU 4190 - Elementary Student Teaching and Seminar: K-6**

**Credits:** 6,12

**Prerequisite(s):** Successful completion of all requirements of the major and the elementary licensure program

**Description:** This is a supervised, full-time field experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision, and assessment of learners (grades K-6). Ten hours of seminar are required (five hours for six credit course). To pass this course, and be recommended for licensure, teacher candidates must be minimally rated as proficient in all Performance-Based Standards for Colorado Teachers. Each student teacher is required to complete the Teacher Work Sample with all requirements rates as proficient or higher.

**University Requirement(s):** Senior Experience

### **EDU 4222 - Designing Instruction For All Learners**

**Credits:** 3

**Prerequisite(s):** EDU 4115 or EDU 4116; RDG 4444

**Corequisite(s):** EDU 4225 or EDU 4226

**Description:** This course focuses on the knowledge and skills of data literate teachers, who can select and create valid and reliable assessments, critically analyze resultant assessment data, and plan instruction utilizing varied differentiation models to increase academic achievement for students with diverse learning needs. Attention is given to grouping strategies and management of the classroom environment for successful whole group, small group and individual instruction. Tracking individual and class performance through multiple measures and analyzing the success of differentiated instructional sequences is included. Teacher candidates apply these techniques in the co-requisite Residency II and reflect upon successes, challenges, and adaptations in practice with course peers.

### **EDU 4225 - Residency II**

**Credits:** 9

**Prerequisite(s):** EDU 4115 or EDU 4116

**Prerequisite(s) or Corequisite(s):** EDU 4222 and RDG 4444

**Description:** This culminating, full-time clinical residency will place the teacher candidate in an assigned, accredited public or private elementary school. Close collaboration between the candidate and

mentor teacher will occur in a variety of ways, including the candidate taking the role of lead teacher. The candidate will assume responsibility for all functions of the classroom, including overall design and implementation of instruction and assessment in all curricular areas, maintenance of a productive classroom environment tailored to the needs of diverse learners, communication with colleagues and families, and integration of technology to improve student learning. Knowledge and skills gained in the corequisite EDU 4222 course concerning assessment, data, and use of specific instructional strategies for identified needs are practiced, and the teacher candidates evaluate these practices in light of class and individual academic achievement. Seminar accompanies Residency II.

**University Requirement(s):** Senior Experience

### **EDU 4226 - CLD Residency II**

**Credits:** 9

**Prerequisite(s):** RDG 4444; EDU 4115 or EDU 4116, all concentration coursework

**Corequisite(s):** EDU 4222

**Description:** This culminating, full-time clinical residency will place the teacher candidate in an assigned, accredited public or private elementary school. Close collaboration between the candidate and mentor teacher will occur in a variety of ways, including the candidate taking the role of lead teacher. The candidate will assume responsibility for all functions of the classroom, including overall design and implementation of instruction and assessment in all curricular areas, maintenance of a productive classroom environment tailored to the needs of diverse learners, communication with colleagues and families, and integration of technology to improve student learning. Knowledge and skills gained in the corequisite EDU 4222 course concerning assessment, data, and use of specific instructional strategies for identified needs are practiced, and the teacher candidates evaluate these practices in light of class and individual academic achievement. Candidates participate in all content area instruction. CLD Residency II includes a seminar.

**University Requirement(s):** Senior Experience

### **EDU 4510 - Development of Methods and Materials for Second Language/Bilingual/Bicultural Learning**

**Credits:** 4

**Prerequisite(s):** EDU 3510 and satisfactory proficiency in Spanish reading, writing, listening, and speaking as determined by written and oral exams administered by MSU Denver Spanish-speaking faculty

**Description:** This course is designed to help students identify appropriate integrated bilingual instructional materials aligned to Colorado model content standards in the areas of reading and writing, mathematics, science, social studies, health, and fine arts. It emphasizes planning, implementing, and evaluating integrated curriculum for the linguistically and culturally diverse student with alternatives in approaches and methodology. The course includes 15 hours of field experience in a bilingual classroom where students apply course concepts in real school settings.

### **EDU 4590 - Linguistically Diverse Student Teaching and Seminar**

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements of the major, minor, linguistically diverse endorsement, teacher licensure program, and general studies

**Description:** Satisfaction of all student teaching application requirements by the required deadline. Passage of the Linguistically Diverse PLACE test. Corequisite: In addition to taking EDU 4590 students must complete eight weeks of student teaching (EDU 4190, EDS 4290, or ECE 4390) in an elementary, secondary, or early childhood classroom working with a cooperating teacher in their initial licensure area. This course is a supervised, full-time, eight-week student-teaching experience in an accredited public or private school's linguistically diverse program. The experience provides increasing responsibility for the teaching, supervising, and directing of an identified group of English language learners, K-12. Teacher candidates must attend 10 hours of seminar conducted by college supervisors of student teaching. For this course, teacher candidates work with a linguistically diverse teacher and demonstrate proficiency in all phases of linguistically diverse classroom instruction. Teacher candidates are required to complete components of the teacher work sample and demonstrate proficiency in Performance Based Standards for Colorado Teachers as well as Colorado Linguistically Diverse Endorsement Standards. Proficiency required for recommendation for linguistically diverse endorsement includes ability to impact English language learners' academic success and to develop their English language proficiency.

#### **EDU 4650 - Current Issues in Education: Variable Topics**

**Credits:** 3

**Prerequisite(s):** Advanced students in education

**Description:** An in-depth examination of selected current topics and issues in education. Topics vary but all are of current importance, requiring the study of recent writings, research, and legislation.  
*Note: This course may be repeated for credit under different topics.*

#### **EDU 4700 - Substitute Teacher Workshop**

**Credits:** 1

**Prerequisite(s):** Bachelor's degree or permission of instructor

**Description:** This course provides the background knowledge, methods, techniques and materials for substitute teachers at the elementary and middle school levels to be more confident and competent substitute instructors.

## **English**

#### **ENG 1001 - Writing Studio A**

**Credits:** 1

**Prerequisite(s):** Appropriate score on the First Year Writing placement

**Corequisite(s):** ENG 1010

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on the relationship of reading and grammar to writing.

#### **ENG 1002 - Writing Studio B**

**Credits:** 2

**Prerequisite(s):** Score of 50 or above on Sentence Skills Accuplacer and secondary placement

**Corequisite(s):** ENG 1008 or ENG 1009

**Description:** This two-hour lab provides supplemental academic instruction for international students or students who have completed their high school education outside the United States. This course emphasizes the relationship of reading and grammar to writing. It also explores the conventions of American academic writing and writing classes.

#### **ENG 1008 - Stretch Composing Arguments A**

**Credits:** 3

**Prerequisite(s):** Appropriate score on the First Year Writing placement.

**Description:** This course focuses on writing, rhetorical situations, and textual analysis. The course employs lecture, discussion, workshop, and conference methods. Students will learn how to critically read, summarize, engage and analyze texts. Students will demonstrate their ability to generate, organize, and produce writing for appropriate audiences. This semester is the first half of a two-semester sequence (ENG 1008 and ENG 1009) that is taught by a single professor and is a prerequisite for ENG 1020. This two-semester sequence is a study-and-process-intensive equivalent to ENG 1010. Coursework does not include library research. Students must receive a D- or better to continue into ENG 1009.

#### **ENG 1009 - Stretch Composing Arguments B**

**Credits:** 3

**Prerequisite(s):** D- or better in ENG 1008.

**Description:** This semester is the second half of a two-semester sequence (consisting of ENG 1008 followed by ENG 1009) that is taught by a single professor and is a prerequisite for English 1020. This two-semester sequence is a study- and process- intensive equivalent to ENG 1010. This course focuses on writing, rhetorical situations, and textual analysis, building on foundations of the first semester of the course. The course employs lecture, discussion, workshop, and conference methods. Students will learn how to critically read, summarize, engage, and analyze texts. Students will demonstrate their ability to generate, organize, and produce writing for appropriate audiences. Coursework does not include library research. Students must receive a C- or better to earn General Studies, Composition credit. This semester is the second half of a two-semester sequence: ENG 1008 prepares the student for ENG 1009, and the two courses together serve as a prerequisite for English 1020.

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO1

#### **ENG 1010 - Composing Arguments**

**Credits:** 3

**Prerequisite(s):** SAT Evidence-Based Reading and Writing 470 or SAT Verbal 430 or ACT English 18 or Appropriate score on the First Year Writing placement.

**Description:** ENG 1010 is a course focusing on the process of writing and revising college level texts in a variety of genres. The

course employs lecture, discussion, workshop, and conference methods. Students learn how to read, summarize, and analyze texts. Students demonstrate their ability to generate, organize, and produce writing for appropriate audiences. Coursework does not include library research.

*Note: Students must receive a grade of "C-" or better to earn course credit.*

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO1

### ENG 1020 - Research and Argument Writing

**Credits:** 3

**Prerequisite(s):** C- or better in ENG 1009 or C- or better in ENG 1010 or Appropriate score on the First Year Writing placement or ACT English 27 or SAT Evidence-Based Reading and Writing 620 or SAT Verbal 570

**Description:** This is a course in the process of writing extended essays supported by research. The course includes an introduction to research methods, practice in critical reading, thinking, and writing across the disciplines, integration of source material, and the conventions of MLA and APA styles of documentation. Students can expect to do a series of shorter writing and research assignments leading to the longer, documented paper.

*Note: Because of continual development in research technology and techniques, credits ten years or older, from any institution, will not transfer. ENG 1020 requires a grade of C- or better to fulfill the General Studies requirement.*

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO2

### ENG 1021 - Honors Research and Argument Writing

**Credits:** 3

**Prerequisite(s):** C- or better in ENG 1009 or C- or better in ENG 1010 or Appropriate score on the First Year Writing placement or ACT English 27 or SAT Verbal 570 or SAT Evidence-Based Reading and Writing (620) AND Student in the Honors program or approval by the Honors Director

**Description:** This is a course for students in the Honors Program and addresses the process of writing extended essays supported by research. The course includes an introduction to research methods, practice in critical reading, thinking, and writing across the disciplines, integration of source material, and the conventions of MLA and APA styles of documentation. Students can expect to do a series of shorter writing and research assignments leading to the longer, documented paper and will write reflectively on their writing process.

*Note: Because of continual development in research technology and techniques, credits ten years or older, from any institution, will not transfer. ENG 1021 requires a grade of C- or better to fulfill the General Studies requirement.*

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO2

### ENG 1100 - Introduction to Literature

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This is a general studies course in the understanding and analysis of literary genres, including fiction, drama, and poetry.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

### ENG 2000 - Introduction to Textual Studies

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students study diverse texts in literature, film, graphic novels, linguistics, and rhetoric from a critical perspective appropriate to the large field of English studies and aimed at developing critical thinking skills for new reading and writing situations emerging in the twenty-first century. Students learn to analyze forms and uses of language across a variety of media, employing strategies of close textual explication and application of critical perspectives, while exploring the impact of written and visual discourses in shaping ideas, identities, and social values.

### ENG 2100 - Introduction to Literary Studies

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Designed primarily for English majors and minors, this course provides an introduction to literary studies. Students learn the terminology, analytical skills, and critical approaches of the discipline. Students read, discuss, and write about literature from a variety of cultures and identities (including national, ethnic, gender, and LGBTQ+).

### ENG 2150 - Legends of Troy

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course studies the literature of the epic war between the Greeks and the Trojans. We read literature from ancient Greek and Roman sources and consider such characters as Achilles, Paris, Helen, Odysseus, and Hercules, and the groups connected with them: the Amazons, the Argonauts, the Spartan armies, and the Roman Legions. Students also consider the legacy of this war in popular culture: graphic novels, movies, and video games.

**General Studies:** Arts and Humanities

### ENG 2170 - Medieval Mythologies

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students study mythologies of the world as circulated in the period 500-1500, including stories about the Asian Monkey King, the Aztec Quetzalcoatl, Arthur and the Knights of the Round Table, Japanese samurai, and Arabian jinn. It considers these legends in their sacred contexts and looks at transmission and changes across cultures and across time-many of these mythologies are part of contemporary culture.

**General Studies:** Arts and Humanities, Global Diversity

### ENG 2210 - American Literature: Beginnings through the Civil War

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 and ENG 2000 or ENG 2100

**Description:** This course surveys literatures by diverse voices, written in America from the Pre-Colonial Era to the Civil War including poetry, drama, fiction, and non-fiction. Students read, analyze, and write about Pre-Colonial, Colonial, Enlightenment, Reform, Romantic, and Transcendental American literatures.

#### **ENG 2220 - American Literature: Civil War to Present**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 and ENG 2000 or ENG 2100

**Description:** This course surveys literature by diverse voices written in America from the Civil War to the present, including poetry, drama, fiction, and non-fiction. Students read, analyze, and write about Realist, Naturalist, Modernist, and Postmodernist American literature.

#### **ENG 2240 - Introduction to Native American Literature**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 or NAS 1000

**Description:** Students study the oral and written literatures of Native Americans in their historical, political and social context. This course is suitable for non-English majors.

*Note: Credit will be granted for only one prefix: ENG or NAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 2240

#### **ENG 2270 - Monsters and Monstrosity**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course offers an introduction to the practices of literary studies through the theme of monsters and monstrosity. Considering examples from different genres, media (such as literature, film, graphic novels), and time periods, students analyze the cultural significance of the monster in the many forms it may take and explore the ways in which creative works, through such figures as the monster, represent and rethink realities (social, cultural, scientific, human) through the blurring of the real and the imaginary.

**General Studies:** Arts and Humanities

#### **ENG 2310 - British Literature: Beginnings to the late 1700s**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 and ENG 2000 or ENG 2100

**Description:** This course covers the development of the language, literary forms, and themes of the writers of England from the Anglo-Saxon period through the late 1700s. It includes innovations in literary style, the role of literature in articulating the philosophies and concerns of a culture, the historical background of each period, and linguistic change. Students develop skills in analyzing, discussing,

and writing about literature of the Anglo-Saxon, Medieval, Early Modern, Restoration, and Enlightenment periods.

#### **ENG 2330 - British Literature: Late 1700s to the Present**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 and ENG 2000 or ENG 2100

**Description:** This course covers the development of literary forms and themes of British literature from the late 1700s to the present. It includes innovations in literary style, the way literature articulates the philosophies and concerns of a culture, and the historical background of each period. Students develop skills in analyzing, discussing, and writing about Romantic, Victorian, Modern, Postmodern and Contemporary British literature.

#### **ENG 2340 - Shakespeare and Popular Culture**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students study plays by Shakespeare and their adaptation to other media such as film, visual art, and the graphic novel. Students read, view, and write about plays and their adaptations to other media to improve their understanding of Shakespeare plays and their place in contemporary culture. This course is intended for non-English majors.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

#### **ENG 2410 - Survey of Chicana/o Literature**

**Credits:** 3

**Prerequisite(s):** CHS 1000 and ENG 1020, or permission of instructor

**Description:** This course reviews major literary genres associated with Chicana/o and Latina/o creative expression from the 1800s to the present, including poetry, drama, and the novel.

*Note: Credit will be granted for only one prefix: CHS or ENG.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 2010

#### **ENG 2450 - Contemporary Women's Literature**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Prerequisite(s) or Corequisite(s):** ENG 2000 or GWS 1001

**Description:** In this course, students study various texts by women writers with an emphasis on contemporary writing, or writing from the 20th Century to the present. Students read, analyze, discuss, and write about women's texts through gender studies and feminist studies theoretical lenses. Students focus on different sociocultural and sociopolitical issues that exist and surface in women's writing. Course content is themed around issues that are most relevant and prevalent to women and their stories.

*Note: Credit granted for only one prefix: ENG or GWS.*

**Cross Listed Course(s):** GWS 2450

### **ENG 2460 - Introduction to Children's Literature**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This course is intended for students who have a general interest in the subject of children's literature, that is, writing intended for an audience ranging from pre-readers to early adolescents. The course surveys the genres and the history of such literature, including various oral traditions, children's fiction and poetry, and current issues concerning children's literature. Students develop their abilities to understand, analyze, appreciate, and critique children's literature.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

### **ENG 2500 - Introduction to Creative Writing**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Students write in a variety of genres (e.g., fiction, poetry, drama, and creative nonfiction), using a recursive process and a workshop setting to revise, edit, and polish their works to final drafts. Students study writing theory and sample texts to inform the structure, style, and literary qualities of their own writing.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

### **ENG 2505 - Rhetoric of War**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students explore different representations of war and how these representations affect our views of soldiers, citizens, and society. Students analyze texts, such as letters, memoirs, art, film, poetry and literature, in order to discuss different forms of representation concerning war, and multiple perspectives of war.

**General Studies:** Arts and Humanities

### **ENG 2510 - Introduction to Rhetoric and Composition**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This course provides an introduction to written Rhetoric and Composition. Students are introduced to major theories, concepts, and historical figures in the field of written rhetoric and composition. Students consider the terminology, traditions, critical approaches, and controversies of written composition and rhetoric as the field evolves in the 21st Century.

### **ENG 2512 - The Rhetoric of Social Media**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Students study how traditional notions of literacy and creativity are being both challenged and encouraged by pervasive

computing, particularly social media. Through readings, research and discussion, students assess and critique how social media are effective (or not), how they function rhetorically, and how they influence perceptions of written communications. Students learn to analyze the rhetorical features of texts both in print and digital form.

**General Studies:** Arts and Humanities

### **ENG 2513 - Disability Rhetorics**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1009 or ENG 1010

**Description:** Students examine the ways that (dis)ability is rhetorically constructed through discourse in literature, the arts, social media, popular culture, and more. Students study the intersections of (dis)ability and gender, gender identity, race, ethnicity, class, and sexual orientation. Students conduct ethnographic research on how rhetorical constructions of (dis)ability are shaped by and help shape larger systems of power, privilege, and oppression.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **ENG 2810 - Vampire Films**

**Credits:** 3

**Description:** In this course students learn about vampire traditions in Western cultures and how they have evolved from the late Middle Ages to the present in written and cinematic forms. The emphasis is on theatrical-released film representations of those traditions, including their intercultural origins and their transmission across national and cultural boundaries.

**General Studies:** Arts and Humanities, Global Diversity

### **ENG 2820 - Aviation in Film and Literature**

**Credits:** 3

**Description:** Students examine how fixed-wing flight has been represented in literature and in film, from the early twentieth century to the present. The emphasis is on the representation of technologies via written and cinematic narratives in evolving social contexts.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH2

### **ENG 2850 - International Film**

**Credits:** 3

**Description:** This course introduces the study of films, using classics of international cinema. Students study national cinemas, important movements, and critical trends, as well as themes, styles, and important figures relevant to each era/movement/national cinema. Students study representative films and the larger culture represented in those films. Students learn a film vocabulary that will enable them to articulate critical responses and write analytical, evaluative critiques.

**General Studies:** Arts and Humanities, Global Diversity

**Guaranteed Transfer:** GT-AH2

### **ENG 2860 - Introduction to Film and Media Studies**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 or permission of the instructor

**Description:** In this course students study cinema as culture and art form, both on-screen and in written critique. The emphasis is on learning the fundamentals of film language, including mise-en-scene, cinematography, editing, and sound, so that students can produce critical writing of their own. Films studied represent diverse perspectives, eras, styles, and nationalities; those films not from Anglophone cultures are screened with English subtitles.

### **ENG 3100 - Chaucer, Shakespeare, Milton**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** Students will read, analyze, and write about major works by Geoffrey Chaucer, William Shakespeare, and John Milton. Students will study characteristics of Middle and Early Modern English, political and social environments in which the texts were written, and their critical legacies.

### **ENG 3111 - Studies in Early Anglophone Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000

**Description:** This course focuses on the study of literature in English within its historical and cultural contexts, examining characteristic writers responding to ideas and events in earlier Anglophone literature (before c. 1800). Readings include primary literature of the period as well as materials exploring the literature's contexts and may also include attention to examples of modern portrayals of the earlier period.

### **ENG 3112 - Studies in Early World Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000

**Description:** This course focuses on the study of world literature (non-Anglophone) within its historical and cultural contexts, examining characteristic writers responding to ideas and events in early world literature from its beginnings to c. 1600. Readings include primary literature read in translation as well as materials exploring the literature's contexts and may also include attention to examples of modern portrayals of the earlier period.

### **ENG 3113 - Studies in Later Anglophone Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000

**Description:** This course focuses on the study of literature in English within its historical and cultural contexts, examining characteristic writers responding to ideas and events in the modern period (c. 1800 to present). Readings include primary literature as well as materials exploring the literature's contexts.

### **ENG 3114 - Studies in Later World Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000

**Description:** This course focuses on the study of world literature (non-Anglophone) within its historical and cultural contexts, examining characteristic writers responding to ideas and events in world literature from c. 1600 to the present. Readings include primary literature of the period read in translation as well as materials exploring the literature's contexts.

### **ENG 3120 - Literature and Film: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2860

**Description:** This course focuses on variable topics in the study of literature and film. The course addresses the development of specific themes (such as representational modes, schools of thought, or specific social issues) across written texts and visual media narratives, considering both the representations and explorations of the theme under study in individual works from various periods and/or contexts and differences in narrative and representational strategies between print texts and film texts.

*Note: This course may be repeated under different topics two times.*

### **ENG 3130 - Literary Genre: Novel**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or 2100 or permission of instructor

**Description:** This course is an in-depth study of the novel as a literary form. In addition to reading and discussing novels, students address artistic, historical, cultural, and critical questions relevant to our understanding of the development of the novel, its defining features, structures, and variations. Representative texts in a given semester include multiple periods and subgenres but may focus on a particular theme.

### **ENG 3140 - Literary Genre: Poetry**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or 2100 or permission of instructor

**Description:** This course provides an in-depth study of poetry as a literary form. In addition to reading and discussing a variety of poetry, students address poetic, aesthetic, historical, cultural, and critical questions relevant to our understanding of the development of poetry, its defining features, structures, and variations. Representative texts in a given semester will include multiple periods and sub-genres but may focus on a particular theme.

### **ENG 3150 - Development of European Epic**

**Credits:** 3

**Prerequisite(s):** ENG 2100 or permission of instructor

**Description:** This course traces and analyzes the development of the epic genre, focusing particularly on works produced in Medieval and Early Modern Western Europe, from the Celtic and Germanic heroic cultures and oral formulaic tradition through the development of later Medieval and Early Modern verse and prose epics. The course covers the important literary modes, tropes and themes prevalent in the epic genre; relevant historical and cultural factors in the development of

different epic modes; relationships to the Classical period; and critical/theoretical approaches to the genre. Non-English texts are read in translation.

### **ENG 3160 - Literary Genre: Drama**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** Study of drama as a literary genre focuses on features of the form, important modes, tropes, themes, and relevant critical/theoretical approaches. Generic variations such as tragedy, comedy, realism, modernism, absurdism, etc., are examined and located in cultural history. Non-English texts are read in translation.

### **ENG 3180 - Literary Genre: Narrative**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or Permission of Instructor

**Description:** Literary Genre: Narrative is an in-depth study of narrative as a literary form. In addition to reading and discussing narratives, we address artistic, historical, cultural, and critical questions relevant to our understanding of the development of narrative, its defining features, structures, and variations. Representative texts in a given semester will include multiple periods and subgenres but may focus on a particular theme. In this course students study oral narrative traditions as these traditions historically influence other narrative forms. Other forms of study include prose narratives, poetic narratives, short narratives, long narratives, fiction narratives, and non-fiction narratives.

### **ENG 3210 - Development of American Drama**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of the instructor

**Description:** Students read and analyze dramas and critical texts, tracing the development of American drama from the late eighteenth century to the present. The course provides instruction in historical and cultural contexts, dramatic techniques, and critical and theoretical views of the dramas. Students locate, study, and apply literary criticism appropriate to individual texts in their own written literary analysis.

### **ENG 3230 - Development of the American Novel**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** Students read and analyze novels and critical texts, tracing the development of American novels from the mid-nineteenth century to the present. The course provides instruction in historical and cultural contexts, narrative techniques, and critical and theoretical views of the novels. Students locate, study, and apply literary criticism appropriate to individual texts in their own written literary analysis.

### **ENG 3240 - African American Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or AAS 1010 or permission of instructor

**Description:** Students read, analyze, and write about various forms of literature produced by African Americans with consideration of historical and social contexts. Course content includes oral tradition, slave narratives, Harlem Renaissance, Black Arts movement, and contemporary literature.

*Note: Credit will be granted for only one prefix: ENG or AAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3240

### **ENG 3242 - Contemporary Native American Literature**

**Credits:** 3

**Prerequisite(s):** ENG 1020 and ENG 2000 or ENG 2100 or NAS 1000

**Description:** Students read, analyze, and write about various forms of literature produced by and about the Native American experience with consideration of historical and social contexts. Course content includes important contemporary Native American writers in a variety of cultures, critical readings on indigenous history and pertinent theory, and explore how historical contingencies and political debates inform literature, as well as how literature and culture can inform and challenge public and political opinion.

*Note: Note: Credit will be granted for only one prefix: ENG or NAS.*

**Cross Listed Course(s):** NAS 3242

### **ENG 3250 - Black Women Writers**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** The course studies selected works chosen as representative of the issues and concerns of Black women worldwide as voiced by Black women writers from Africa and the Diaspora.

*Note: Credit will be granted for only one prefix: AAS, ENG, GWS, or HON.*

**Cross Listed Course(s):** AAS 3250, GWS 3250, HON 3250

### **ENG 3280 - Development of American Poetry**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and junior-level standing, or permission of the instructor

**Description:** In this course, students trace and analyze the development of American poetry from the beginning to the present. The course focuses on the reading and analysis of poetry, covering historical contexts, philosophical and cultural trends, poetic techniques, and critical and theoretical perspectives.

### **ENG 3330 - Development of the British Novel**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** Students read and analyze fiction, tracing the development of British novels written in English from the late 1600s to the present. The course provides instruction in historical contexts, economic/material constraints of publishing, narrative techniques,

and critical and theoretical analyses of the novels. Students locate, study, and apply literary criticism appropriate to individual texts in written literary analysis.

### **ENG 3350 - Essential Shakespeare**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** Students read and analyze plays and selected sonnets that form the core of Shakespeare's continuing canonical status in texts, on stages, and in the classrooms of the English speaking world. Students analyze these works and their historical contexts, alongside current cultural concerns, including the maintenance of the canonical status of Shakespeare's works as well as the politics of race, gender, colonialism, and governance in his works. This course is available to English majors and non-English majors.

### **ENG 3360 - LGBT Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or GWS 1200

**Description:** Students read, analyze, and write about various forms of literature produced by and about the LGBT experience with consideration of historical and social contexts. Course content includes important LGBT writers in a variety of literary periods and cultures, critical readings on LGBT history and pertinent theory, and explore how historical contingencies and political debates inform literature, as well as how literature and culture inform and challenge public and political opinion.

*Note: Credit will be granted for only one prefix: ENG or GWS.*

**Cross Listed Course(s):** GWS 3430

### **ENG 3370 - Contemporary World Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100

**Description:** This course introduces students to literature from the world outside British and American cultural traditions. Readings focus on fictional narratives originating in regions such as Africa, the Middle East, South Asia, East Asia, Latin America, and Continental European literature. Students expand their knowledge of different cultures, acquire theoretical understanding of postcolonial issues since the mid-twentieth century, and enhance their skills in reading and interpreting literatures from other parts of the world.

### **ENG 3400 - Development of Modern Poetry**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** In this course, students study poetry from the Modern period: the mid-19th century through World War II. Students read, analyze, and write about poetry and poetic theory. Attention will be given to locating and understanding literary criticism appropriate to individual texts and using that analysis in the writing of the researched literary analysis.

### **ENG 3420 - The English Bible as Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of the instructor

**Description:** This course is a critical study of the Bible in English translation with emphasis on the literary forms and cultural contexts of the books of the Bible from the Hebrew Bible through the New Testament. Students examines the historical contexts, narrative techniques, development of canonical versus non-canonical biblical text, and critical and theoretical evaluations of the Bible as a work of literature, with attention to locating and understanding literary criticism appropriate to individual texts and using those resources in the writing of researched literary analysis.

### **ENG 3430 - Classical Mythology**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of the instructor

**Description:** Students read, analyze, and write about ancient Greek and Roman mythology as expressed in translations of enduring works of Classical literature. The course provides instruction in historical contexts, narrative techniques, and critical evaluations of Classical mythology. Students locate, study, and apply literary criticism appropriate to individual texts in written literary analysis.

*Note: Credit will be granted for only one prefix: ENG or HON.*

**Cross Listed Course(s):** HON 3430

### **ENG 3435 - Sexuality and Gender in Ancient Greek and Roman Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** In this course, students explore the expression of gender in Ancient Greek and Roman literature, wherein gods, goddesses, heroes, and heroines are defined by their gender and sexuality. Using critical and theoretical approaches appropriate to the study of treatments of gender and sexuality in literary texts, students will read, analyze, discuss, and write about Greek and Roman literature.

### **ENG 3440 - Myth and Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** This course examines major mythological texts, including Greek, Roman, Hebrew, Christian, and non-Western, and their influences on literature. Students consider the intertextuality of myths and their reinterpretations in later literature. Students also study relevant literary theory and criticism.

### **ENG 3461 - Analyzing Children's Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** This course studies various levels and types of children's literature with attention to applying literary theory to the analysis of children's literature. The course traces the connected historical development of concepts of childhood and children's

literature. Students analyze and critique various works of children's literature across a number of time periods, modes, and genres.

#### **ENG 3465 - Anti-Racist Children's Literature**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This course is designed to help students learn more about a wide array of inclusive, anti-oppressive, anti-racist, anti-sexist, anti-xenophobic, and intersectional children's literature and authors. Students explore anti-racist children's literature, such as picture books, novels, poetry, graphic novels, and non-fiction for adolescents, analyzing the works through cultural, historical, ideological, and aesthetic lenses, and thus become more adept at understanding the cultural power of children's literature.

**General Studies:** Arts and Humanities

**University Requirement(s):** Multicultural

#### **ENG 3470 - Young Adult Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100

**Description:** This course provides a comprehensive critical survey of various types and genres of contemporary young adult literature. It focuses on issues relating to selection, culture, gender, diversity, and response to and analysis of literature in both print and non-print forms.

#### **ENG 3475 - Affirming Diverse Voices in Literature in the Secondary Education Classroom**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing or permission of instructor

**Description:** This is a course in the study of the representative works by people of color and diverse ethnicities most frequently taught in the secondary classroom. Students will study critical theory and literary influences.

#### **ENG 3480 - The Chicano Novel**

**Credits:** 3

**Prerequisite(s):** CHS 2010 or Permission of instructor

**Description:** This course deals with origins, themes, and techniques that characterize the Chicano novel. It is an in-depth study of the best examples of literary production in both Spanish and English.

*Note: Credit will be granted for only one prefix: ENG or CHS.*

*Suitable for non-English majors.*

**Cross Listed Course(s):** CHS 3400

#### **ENG 3501 - Studies in Rhetoric and Writing: Style**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course focuses on the rhetorical, social, cultural, and political contexts of writing styles and style guides. Coursework may incorporate lectures, selected textual studies, group discussion, workshops, and supervised projects.

#### **ENG 3503 - Rhetoric and Visual Literacy**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** The course is a study on visual literacy and writing through the analysis of how text, through rhetoric, both cultivates and restricts the formation of power, identity, and community. Students analyze the material environment, such as film and new media, clothes, furniture, food, music, signage, tools, toys, and other objects, as rhetorical fields of persuasive appeals and how they influence, liberate, and constrain the formation of identity and community.

#### **ENG 3505 - Concepts of Authorship**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course examines Western concepts of authorship and originality. Topics include copyright and intellectual property law, collaborative authorship, theories of invention, and contemporary challenges to the idea of solitary authorship, including the Internet, the writing workshop, writing centers, and workplace writing practices.

#### **ENG 3506 - Academic Editing and Composing**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** Students learn the principles of editing and composing documents for diverse academic audiences. Students work with a variety of documents, including scholarly and academic papers, conference talks, scholarly blogs, and book reviews, to explore how editing shapes texts with regard to content, format, style, tone, grammar, punctuation, and mechanics.

#### **ENG 3507 - Writing Reviews and Criticism**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students learn the basics of writing reviews and criticism, focusing on purposes, conventions, and techniques. Emphasis is placed on writing literature reviews, book reviews, and reviews of other cultural artifacts, including film, food, and art, for both scholarly and popular audiences.

#### **ENG 3508 - Rhetoric of Humor: Parody, Satire, and Comedy**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** Students explore how humor persuades, considering comedic texts and performances as rhetorical. Students examine the relationship between writer and audience, the purposes of humor, and the rhetorical techniques and strategies comedic writers use. Humorous texts in a variety of genres are studied, and students also produce their own humorous texts.

#### **ENG 3510 - Composition Studies: Theories and Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 and junior standing, or permission of instructor

**Description:** This class is a study of the theoretical foundations of writing and writing processes, focusing on writing as both a personal and a social act. Students apply theories of writing to their own processes and in turn learn how writing works. Students develop their own theory of composing based on reading and practical application in composition studies.

### **ENG 3520 - Research Methods in Rhetoric and Composition**

**Credits:** 3

**Prerequisite(s):** ENG 2510

**Description:** This course introduces students to the types of research methods used in rhetoric and composition. Students explore what types of questions are answered by different types of research methodologies and how empirical studies in rhetoric and composition are designed. Methodological issues such as data collection, coding, validity, and reliability are considered, as well as participant rights and protections and other ethical issues. Students design an empirical study.

### **ENG 3521 - Poetry Writing Workshop**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100, and ENG 2500, or permission of instructor

**Description:** Students in this writing workshop will be introduced to the major conventions of poetry writing while writing their own poems. Students will practice generating, drafting, editing, polishing, and revising each poem. The class will include peer workshops and poetry readings.

### **ENG 3522 - Fiction Writing Workshop**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100, and ENG 2500, or permission of instructor

**Description:** Students will learn, develop, and practice fiction writing. Writing assignments will focus on the development of plot, character, theme, setting, and voice. The course will focus not only on the craft necessary to develop a marketable narrative, but also on the tools needed to build a challenging and supportive workshop environment.

### **ENG 3523 - Drama Writing Workshop**

**Credits:** 3

**Prerequisite(s):** ENG 2500 or THE 2210 or permission of the instructor

**Description:** This course introduces the basics of playwriting style and structure. Writing assignments focus on crafting dialogue, developing characters, and structuring effective plots. Emphasis is placed on the collaborative nature of playwriting, with its ultimate goal of public performance.

*Note: Credit will be granted for only one prefix: ENG or THE.*

**Cross Listed Course(s):** THE 3523

### **ENG 3524 - Creative Nonfiction Writing Workshop**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100, and ENG 2500, or permission of instructor

**Description:** This class includes the study and writing of creative nonfiction and its subgenres, e.g., literary memoir, personal essay, literary journalism, nature writing, and literary travel writing, through group discussions and supervised workshops, developing their writing processes. Students in this writing workshop will be introduced to the major conventions of creative nonfiction while writing their own pieces and participating in peer workshops.

### **ENG 3525 - Scholarly Writing**

**Credits:** 3

**Prerequisite(s):** ENG 1020, ENG 1021 and Junior or higher standing

**Description:** Students study the expectations that shape scholarly writing in their various academic disciplines. Students draw on research appropriate for discipline-specific peer-reviewed publications and/or conference presentations. During this course, students learn to transform their written work into submission-ready artifacts with the guidance of instructor feedback and peer review. This course is ideal for students who plan to attend graduate school or are in writing-intensive degree programs.

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO3

### **ENG 3526 - Writing in the Sciences**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 and Junior or higher standing

**Description:** Students explore the expectations that shape scientific writing in their various scientific disciplines and employ the correct forms, interpret and synthesize the literature and present their researched writing to various audiences. Students draw on research appropriate for discipline-specific publications and/or conference presentations. During this course, students transform their work into publishable/presentable texts with the guidance of instructor feedback and peer review. This course is ideal for students who are majoring in a science discipline.

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO3

### **ENG 3527 - Professional Writing**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 and Junior-level standing

**Description:** This course introduces key concepts and practices of professional writing, including various written genres, research, document design and visual rhetoric, and use of style guides. Students explore the expectations that shape professional writing such as how to employ the correct forms, interpret and synthesize the literature and present their researched writing to various audiences. During this course, students learn to transform their work into sharable documents with the guidance of instructor feedback and peer review. This course is ideal for students to develop and polish

writing skills that will be needed for their career.

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO3

### ENG 3535 - Essentials of Grant Writing

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** Students study the political and social aspects of grantwriting (understanding grant cycles, key players behind funding and stylistic necessities for winning grants) and practice the craft of grantwriting (researching pertinent RFPs, composing and submitting a proposal).

### ENG 3570 - Songwriting

**Credits:** 3

**Description:** This course introduces the basic aesthetic and communicative concepts of songwriting with regard to tradition and to contemporary trends and enables students to articulate a conscious method appropriate to their own aesthetic approaches to songwriting in the context of traditional songwriting. Students compose original songs with various features (lyrics, melody, harmony, etc.) and document them so that each song may be communicated and performed in various different genres, styles, and situations.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** MUS 3240

### ENG 3610 - Theories of Literature

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100

**Description:** Students in this course read major texts in the history of literary criticism, from the Greeks to the present. Students learn to distinguish among various theories and critical strategies, and to apply them to literature. Course work includes advanced study of some literary work and critical writing about it. This course is required for English majors in the Literature concentration.

### ENG 3620 - Perspectives in Literary Criticism: Variable Topics

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level Standing

**Description:** This course studies representative texts of a specific critical perspective (such as structuralism, historicism, materialist criticism, feminist/gender criticism, racial/ethnic identity) applied in literary analysis. Readings include critical and theoretical texts working in the selected critical mode, as well as primary literary texts representing a variety of contexts through which the particular critical perspective may be applied and explored.

### ENG 3621 - Gender Theory

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level Standing

**Description:** In this course, students explore gender theory in literary studies, from its roots in feminist theory to the development of queer theory, considering differences and points of intersection between

feminist, gender, and queer theory perspectives. Readings include critical and theoretical texts representative of the variety of approaches and issues that emerge within gender-related theory, as well as literary texts, from a variety of contexts, through which to consider the perspectives and issues of literary analysis based in questions of gender.

### ENG 3670 - Social Change and Writing Centers

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** Students explore how writing centers can function to promote social change or to reinforce the status quo. Students study how writing centers can both empower and oppress. Students conduct ethnographic research in writing centers, examining how race, sex, gender, sexual orientation, language, disability, and other aspects of identity come into play in writing tutoring and writing center pedagogy. Students study and apply theories and methods from literacy studies, disability studies, and composition studies. Students who complete this course are qualified to work as peer consultants in the MSU Denver Writing Center.

**General Studies:** Social and Behavioral Sciences

### ENG 3671 - Writing Tutoring

**Credits:** 1

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** In this course, students learn the basic practices of writing tutoring in one-on-one settings. Students study and practice a variety of tutoring methods for working with diverse populations. Students apply what they have learned by observing, analyzing, and reflecting on tutoring sessions and processes.

*Note: Course cannot be taken if ENG 3670 has been taken.*

### ENG 3672 - Research in Writing Centers

**Credits:** 1

**Prerequisite(s):** ENG 3670

**Prerequisite(s) or Corequisite(s):** ENG 3671

**Description:** Students learn how to conduct empirical research in a writing center setting. Topics include human subjects research protections, formulating research questions, qualitative research study design, data collection and management, and data analysis and interpretation.

### ENG 3673 - Future Applications of Writing Tutoring Skills

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** ENG 3670 or ENG 3671

**Description:** This course provides the opportunity for Writing Center peer consultants to synthesize the experiences they've had on the job. Students analyze the transformative outcomes of their peer consultant experiences to prepare for post-graduate possibilities such as interviews, internships, and graduate school applications.

### ENG 3711 - History of Film I

**Credits:** 3

**Prerequisite(s):** ENG 2860

**Description:** This course examines the history of cinema from its 19th-century origins until the introduction of sound films in the 1920s through 1938. Students explore important developments and influences in American and international cinema, including the creation of realistic and fantastic styles, the formation of Hollywood narrative, the impact of vaudeville and stage theatre, the emergence of film genres, melodrama, the contributions of women in early cinema, the place of race film, and the evolution of classical editing and dialectical montage.

### ENG 3712 - History of Film II

**Credits:** 3

**Prerequisite(s):** ENG 2860 or permission of instructor

**Description:** This course examines the history of cinema from 1939 to the present. Students explore important developments and influences in American and international cinema, including Classical Hollywood Cinema, Italian Neorealism, Film Noir, the French New Wave, European Art Cinema, New German Cinema, the Hollywood transition years, the emergence of other important national cinemas, and the influence of new technologies, including special effects and digital filmmaking.

### ENG 3720 - Film and Media Studies Topics: Variable Topic

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 and ENG 2860

**Description:** In this course students examine a grouping of cinematic and/or other visual media productions in their historical, cultural, national, regional, and/or other general contexts. Films and/or other visual media are grouped based on considerations such as national cinemas (e.g., Indian Cinema); regional cinemas (e.g., African Cinema); type (e.g., short films, TV series, other visual media); category (e.g., film trilogies, TV, other visual media); and other topics as defined by the specific syllabus. Films and other visual media are screened during laboratory hours or online. This course may be repeated under different topics.

*Note: This course may be repeated under different topics for up to 9 credits.*

### ENG 3721 - Cinema of India

**Credits:** 3

**Prerequisite(s):** ENG 2860 or permission of instructor

**Description:** In this course, students examine what makes the movies of India distinctive. Although the emphasis is on films associated with the term *Bollywood*, some Indian films from outside the mainstream Bollywood tradition are also included, such as an independent film, a Bengali regional film, a diasporic IndoCanadian film, a documentary film, an animated film. Studies include readings in film criticism that address issues of cinematic form and cultural context. ENG 2860 recommended.

### ENG 3722 - Native American Cinema

**Credits:** 3

**Prerequisite(s):** NAS 1000

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Students examine films in several contexts, including the use of film by the dominant society as a means of creating a national identity, socializing Indians, and reinforcing power relationships in the political arena; the use of films by Native American filmmakers as an affirmation of identity and a mechanism for presenting an indigenous view of history, culture and political relationships with the dominant society. Students examine a range of genres, narrative and non-narrative films, live-action films, documentaries, experimental film, and animation. Students examine a broad range of topics, including film form (mise-en-scène, cinematography, editing, and sound); the use of film as a modern storytelling medium and as a mechanism for bridging cultural divides; and film theory. The course also examines the historical, cultural, economic, and theoretical aspects of each film/cinematic area.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 3722

### ENG 3725 - Studies in Cinema: Gender in Mainstream American Film

**Credits:** 3

**Prerequisite(s):** ENG 2860 or permission of instructor

**Description:** In this course, students explore the expression of gender in American film from the origins of cinema to the present day. Students examine such elements as the influence of the "gaze," the depiction of gender-specific subject matter, and the changing depictions of gender, from heteronormative to queer, over time. Students apply film theory in analysis of and writing about the films.

### ENG 3750 - Cinema Genre: Variable Topics

**Credits:** 3

**Prerequisite(s):** ENG 2860 or Permission of instructor

**Description:** In this course students will examine a grouping of cinematic productions in their historical, cultural contexts. Films will be grouped based on considerations such as nation of origin (for example, German Cinema), content (for example, Silent Comedy), or style (for example, Film Noir). Films will be screened during laboratory hours.

*Note: This course may be repeated under different topics.*

### ENG 3770 - Multicultural Cinema

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1009 or ENG 1010 or ENG 1020 or ENG 1021

**Description:** This course covers four areas of multicultural cinema, including African-American Cinema, Asian-American Cinema, Native-American Cinema, and Latinx-American Cinema. Each unit focuses on representations of those specific groups throughout the history of cinema, prominent actors and directors, and how/if representations change over the course of cinema history. The course includes films about each group made by members of each of the groups as well as films made by filmmakers outside of the groups. The course also examines the historical, cultural, economic, and

theoretical aspects of each cinematic area.

**University Requirement(s):** Multicultural

### **ENG 3800 - Creative Writing Bootcamp**

**Credits:** 1

**Prerequisite(s):** ENG 2500 or Permission of Instructor

**Description:** Bootcamp classes are one credit writing/workshop intensive courses built around the production of theme-oriented (types of short story; opening and outlines of a novel; chapbook of poetry; etc.) work. The center of the bootcamp is a three-day weekend during which the students and professor meet to perform exercises, workshops, writing, and market identification, as well as discuss submission and/or performance strategies and materials.

### **ENG 3820 - Writing Studio: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100, ENG 2500 and Junior-level standing. Note: Variants of this course will require different prerequisites, aligning with the variable topic course content.

**Description:** This course offers specialized studios in the writing of a particular literary subgenre or expository form. Coursework will incorporate lectures, selected textual studies, group discussion, workshops, and supervised projects.

*Note: This course may be repeated for credit under different topics for up to 9 credits maximum.*

### **ENG 3980 - Internship in English**

**Credits:** 1-15

**Prerequisite(s):** Major in English; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **ENG 4020 - Old English II: Advanced Translation and Readings**

**Credits:** 3

**Prerequisite(s):** LING 3070 or permission of instructor

**Description:** A second semester of Old English, this course reinforces and expands the knowledge of Old English grammar and vocabulary acquired in ENG 3070 by concentrated readings and translations from selected Old English prose and poetry texts. There is also a continuing emphasis on the relevant cultural and historical contexts necessary for understanding the texts. Students go beyond translation to a critical understanding and appreciation of Old English literature in the original language.

### **ENG 4110 - Advanced Studies in Literature: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing; or permission of instructor

**Description:** This course studies literary works selected as significant expressions of a school, idea, or mode. The works may be drawn from one or more literary eras.

*Note: This course may be repeated for credit under different topics for up to 9 credits maximum.*

### **ENG 4114 - Multi-Ethnic Women's Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing, or permission of instructor

**Description:** In this course, students study contemporary multi-ethnic literature of the United States written by women, focusing on Chicana, American Indian, African American, Asian and Pacific American authors. Students examine the ways in which the texts articulate and respond to cultural and historical contexts, especially in relation to agency and voice.

### **ENG 4115 - Hip-Hop and Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000

**Description:** Students historically and socially situate Hip-Hop as a part of the African American cultural experience in the United States. Students read, analyze, discuss, write about, and apply historical and contemporary context to their reading, analysis, and interpretation of Hip-Hop texts. In this course, students read both literary text and rap songs as Hip-Hop texts. Students focus on different sociocultural and sociopolitical issues that exist and surface in Hip-Hop texts. Course content is themed around issues that are most relevant and prevalent to African Americans, and which surface in their stories and in their songs.

### **ENG 4116 - Harlem Renaissance**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing or permission of instructor

**Description:** This course is a study of the African American literature that was part of the creative movement centered in Harlem, New York, from World War I through the 1930s.

### **ENG 4130 - Major Authors: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing; or permission of instructor

**Description:** This is a course in the study of the artistic and intellectual development of one to three major writers, including representative works, critical theory, and literary and other influences.

*Note: This course may be repeated for credit under different topics for up to 9 credits maximum.*

### ENG 4131 - Jane Austen

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** This course is an in-depth study of the writing career of Jane Austen, pioneer writer of fictional narratives and still widely read English novelist. Readings include some of the juvenilia, *Lady Susan*, *Northanger Abbey*, *Pride and Prejudice*, *Mansfield Park*, *Emma*, *Persuasion*, and *Sanditon*, as well as various essays about Austen and her works.

### ENG 4134 - Margaret Atwood

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing or permission of instructor

**Description:** This course traces, in representative works, the artistic and intellectual development of Margaret Atwood (1939-).

### ENG 4135 - Sylvia Plath

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level standing

**Description:** This course traces, in representative works, the artistic and intellectual development of Sylvia Plath (1932-1963).

### ENG 4137 - Chinua Achebe

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level Standing or permission of instructor

**Description:** This course traces the artistic and intellectual development of Chinua Achebe (1930-2013), including representative works, historical and cultural contexts, critical theory, literary and other influences with special attention paid to the post-colonial movement.

### ENG 4138 - Toni Morrison

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 and Junior-level Standing or permission of instructor

**Description:** This course traces the artistic and intellectual development of Toni Morrison through representative works. Students study selected novels and nonfiction, as well as contexts for Morrison's ideas about fiction, literary history, gender, and race. Students use various theoretical perspectives for writing literacy analyses.

### ENG 4500 - Senior Project

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100, and Senior-level standing and permission of instructor

**Description:** This course is a Senior Experience for the English Major, focusing on the production of a capstone project that synthesizes knowledge and skills acquired over the course of the student's undergraduate studies in English. Students employ critical

analysis and reflect on the range of theoretical approaches, textual forms, authorial identities, orientations, and audiences encountered across the wide field of English and textual studies. Students also consider the history of the field, underlying philosophical tenets, and current and emergent practices. The extended project requires research, close textual analysis, and application of a specific critical or theoretical perspective; it may include, along with the researched academic essay component, other forms of writing, including multi-modal and creative writing.

**General Studies:** Senior Experience

### ENG 4520 - Senior Project: Writing

**Credits:** 3

**Prerequisite(s):** Senior standing, completion of ENG 2500 and 12 credit hours of upper-division writing courses, or permission of the instructor.

**Description:** Students in this English major/writing concentration capstone course practice intensive writing and revision in a number of major genres, with a major, advanced project in a specific genre (fiction, poetry, drama, screenplay, literary nonfiction, essay, or other instructor-approved genre). Students practice senior-level self- and peer-review, and workshop skills.

**University Requirement(s):** Senior Experience

### ENG 4600 - Teaching Literature, Communication, and Visual Literacy, 7-12

**Credits:** 3

**Prerequisite(s):** Junior standing and completion of ENG 2000 or ENG 2100. Minimum 3.0 GPA in the major.

**Prerequisite(s) or Corequisite(s):** ENG 3470

**Description:** This course is intended for students seeking a degree in English with a concentration in Secondary Education or for students seeking licensure to teach secondary English. Students will learn theories and techniques for teaching literature, understanding and responding to texts, and integrating spoken and written communication into their lesson plans. The course will also address visual literacy, language diversity and cross-cultural communication.

### ENG 4620 - Teaching Composition, 7-12

**Credits:** 3

**Prerequisite(s):** Senior standing, 3.0 GPA in the major, and completion of ENG 2000 or ENG 2100, ENG 2500, ENG 3510, ENG 4600, or equivalent courses as determined by a Department of English advisor, or permission of instructor

**Prerequisite(s) or Corequisite(s):** ENG 3470

**Description:** This course is intended for students seeking a degree in English with a concentration in Secondary Education or for students seeking licensure to teach secondary English. This course integrates theory and research in composition with personal practice and pedagogical implementation. Students learn how to teach writing by practicing writing, examining contemporary theories of writing instruction, and making purposeful selection of pedagogical strategies.

### ENG 4630 - Cinema Director: Variable Topics

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 2860 or permission of instructor

**Description:** In this course, students examine the artistic development of a major director of cinema, including historical influences that have contributed to the director's shaping of screen phenomena. Coursework includes the study of important films in the careers of such directors as Alfred Hitchcock, Mira Nair, or Pedro Almodovar. Films are screened during laboratory hours.

*Note: This course may be repeated under different topics for up to 9 credits.*

### ENG 4633 - Spike Lee

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021, ENG 2860

**Description:** In this course, students examine the body of work of Spike Lee as a film director, exploring the development of his cinematic technique over the course of his career, his cinematic innovations, recurring themes and motifs in his films, and his influences from and on film history. The course pays particular attention to formulations and representations of race and identity, and interracial relations. Course topics also include considerations of cinematic form and cultural context, Lee's role in advancing narrative cinema, his influence on other filmmakers, and theoretical applications.

**University Requirement(s):** Multicultural

### ENG 4640 - Teaching English, 7-12

**Credits:** 3

**Prerequisite(s):** Completion of at least 36 semester hours of courses, including ENG 3470 and ENG 4600, required for Secondary School Teaching-English concentration or equivalent courses as determined by a Department of English advisor for those students already possessing a degree in English. Completion of at least 15 semester hours of professional education courses for students seeking licensure through MSU Denver. Permission of instructor.

**Corequisite(s):** ENG 4641

**Prerequisite(s) or Corequisite(s):** ENG 4620

**Description:** This course is intended for students seeking a degree in English with a concentration in Secondary Education or for students seeking licensure through the Teacher Education Program to teach secondary English. Students seeking licensure should take this course during the semester prior to their student teaching. In this course, students preparing to teach English in grades 7 through 12 integrate knowledge and pedagogical strategies from earlier courses. Students address issues of diversity, adolescent development, integration of the English language arts, and their own professional development. Students apply concepts learned in this course to field placements in secondary school settings through ENG 4641.

**University Requirement(s):** Senior Experience

### ENG 4641 - Field Experience in Teaching English in Secondary Schools

**Credits:** 1

**Prerequisite(s):** ENG 3470, ENG 4600

**Corequisite(s):** ENG 4640

**Description:** This field-based course provides pre-service secondary English teachers opportunities to develop their professional and pedagogical skills in an English classroom. In coordination with the classroom teacher, pre-service teachers design, implement, and reflect on content lessons and use content strategies to improve literacy skills, adjusting content for students with diverse needs. Course assignments and evaluations are designed to help pre-service teachers evaluate both student learning and teaching practices. Field placements are arranged by MSU Denver English faculty in collaboration with partner secondary schools.

### ENG 4650 - Teaching Composition in Elementary School K-6

**Credits:** 3

**Prerequisite(s):** ENG 3510, at least junior standing, or permission of instructor

**Description:** This course incorporates the writing process, developmental growth and fluency of K-6 writers, writing skills and assessment, sequential composition curricula, and techniques and materials for teaching composition.

### ENG 4660 - Teaching Literature and Language K-6

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements, LING 3020 and ENG 3461; Senior standing; or permission of instructor.

**Description:** This course focuses on the comprehension and teaching of literature and language for K-6 students, with emphasis on the elements, characteristics, and type of literature and on the forms, functions, and uses of language, grammar, and usage.

**University Requirement(s):** Senior Experience

### ENG 4670 - Cinema Theory and Criticism

**Credits:** 3

**Prerequisite(s):** ENG 2860 or permission of the instructor

**Description:** This course enriches students' understanding of a variety of theoretical models that have influenced contemporary critical practice in cinema studies. Students explore examples of theory and criticism from a range of periods and approaches, with a primary focus on key theories that have emerged in the last forty years. Students become familiar with some of the central debates that enliven contemporary film criticism and demonstrate their knowledge in class discussion and in appropriately documented, original essays.

*Note: Credit will be granted for only one prefix: ENG or HON.*

**Cross Listed Course(s):** HON 4670

### ENG 4850 - Undergraduate Research in English

**Credits:** 1-3

**Prerequisite(s):** ENG 2000, ENG 2100, LING 2010, ENG 3510, ENG 3520, or ENG 3670; and permission of instructor

**Description:** Students engage in a research project that involves the application of a recognized research methodology to a problem in English studies. Students engage in secondary and/or primary research; analysis, synthesis, and/or interpretation of data; and presentation of results or findings. Course may be repeated. A

maximum of 4 hours of undergraduate research may be applied toward a major or minor in English or Linguistics.

## Entrepreneurship

### CFI 1910 - Creative Problem Solving

**Credits:** 3

**Description:** This introductory course focuses on creative problem-solving from an entrepreneurial perspective. Content will introduce students to the concepts of creative problem-solving, entrepreneurship, social entrepreneurship, generating innovative ideas, creating entrepreneurial ventures. It highlights practical aspects of opportunity recognition, and new venture creation. The instructor will utilize readings, workshops, guest entrepreneurs, and real-world projects to convey the theoretical underpinnings, as well as the practical realities of solving problems through entrepreneurial principles.

### CFI 1930 - Social Entrepreneurship

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, or MTH 1110, or SPE 1010, or permission of department

**Description:** This course provides an overview of social entrepreneurship, focusing on how it uses innovative business principles to address societal problems. Attention is paid to business model generation, the literature on social entrepreneurship, and the tools used to identify opportunities.

### CFI 2910 - New Venture Feasibility

**Credits:** 3

**Prerequisite(s):** CFI 1910; or permission of director

**Description:** This course determines whether a student's previously identified opportunities are suitable for the marketplace. Students apply feasibility concepts to the wide range of challenges encountered when launching commercial and non-profit ventures. Through experiential learning opportunities, students apply what they learn to develop a comprehensive plan for their own new venture.

### CFI 3910 - New Venture Creation I

**Credits:** 3

**Prerequisite(s):** CFI 2910; or permission of director

**Description:** This course provides first-hand experience working alongside entrepreneurs to facilitate the launch of student conceived business plans. The goal is to enable students to work with commercial and social/non-profit entrepreneurs to gain experience with the multiple facets of entrepreneurship. This course serves two main learning objectives. First, it provides the student with the opportunity to execute an entrepreneurial project which will encourage the integration of your knowledge. Second, it gives the student first hand exposure to the entrepreneurial process in order to understand the challenges associated with it. Coursework on fundamental business concepts and on developing and executing a business plan are excellent foundations for entrepreneurs, but they are different

from facing the day-to-day challenges in a start-up. In this course, the student is immersed as an observer and participant of the entrepreneurial process.

### CFI 3920 - New Venture Creation II

**Credits:** 3

**Prerequisite(s):** CFI 3910; or permission of director

**Description:** This course is a continuation of CFI 3910 and provides first-hand experience working alongside entrepreneurs and facilitating the launch of student conceived business plans. This course serves two main learning objectives. First, it provides the student with the opportunity to execute an entrepreneurial project which will encourage the integration of the student's knowledge. Second, it gives the student first hand exposure to the entrepreneurial process in order to understand the challenges associated with it. In this course, the student is immersed as an observer and participant of the entrepreneurial process.

### CFI 3930 - Entrepreneurial Promotions

**Credits:** 3

**Prerequisite(s):** ECO 1040, or ECO 2010, or ECO 2020, or BUS 2250; or permission of department

**Description:** The purpose of this course is to present to the entrepreneur the fundamental theories of promoting a new business or social enterprise. Building from the start-up strategy of bootstrapping, students will learn vital aspects of guerrilla tactics such as minimedia, positioning, and preparing a small business promotional budget.

### CFI 3940 - Artrepreneurship

**Credits:** 3

**Prerequisite(s):** ARTH 1500, or MUS 1000, or THE 2210; or Major/Minor in Art; or permission of department

**Description:** The purpose of this course is to give students the tools, techniques and resources to turn their passion for art into a thriving business. Students will learn how open and operate galleries, own a business on the festival circuit, and retail, as well as alternative distribution channels such as online direct sales, direct sales, business to business and online galleries/representation. Upon completion of the course, each student will have the basics to move forward with building a successful art business.

### CFI 3980 - Internship in Entrepreneurship

**Credits:** 1-15

**Prerequisite(s):** Minor in entrepreneurship; junior or senior status; permission of instructor

**Description:** This course provides an internship experience in a for-profit or non-profit enterprise supervised by professionals with on-the-job experience in the field of entrepreneurship.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or*

## Environmental Engineering

### EVE 1215 - Engineering Graphics: Solid Modeling

**Credits:** 3

**Description:** In this course students study solid modeling fundamentals, geometric constructions, multi-view projections, section views, and dimensioning using adequate CAD software.

**Cross Listed Course(s):** SSE 1215

### EVE 2150 - Mechanics of Static Systems

**Credits:** 3

**Prerequisite(s):** PHY 2311 and MTH 2410 with "C" or better, or permission of instructor

**Description:** In this course, students study the principles of mechanics of static systems in two- and three-dimensions: static equilibrium of particles and rigid bodies; section properties; internal forces in statically determinate trusses and beams; friction; and virtual work.

**Cross Listed Course(s):** SSE 2150

### EVE 2250 - International Engineering Project

**Credits:** 3

**Prerequisite(s):** Permission of department

**Description:** This course will engage students with global engineering challenges and build awareness of engineering practices abroad through participation in an international engineering project.

*Note: This course is repeatable for up to 6 credits.*

### EVE 3000 - Concepts in Environmental Engineering

**Credits:** 3

**Prerequisite(s):** CHE 1800, CHE 1801, MTH 2410, ENV 1200

**Description:** In this course students are introduced to the interaction between humans, their activities, and the environment around us. Over the course of the semester, they will explore anthropogenic and natural effects on air and water quality, how these systems operate and the application of applied sciences (e.g., physics, chemistry, and biology) to the natural world. Students are presented with the major environmental challenges through case studies.

### EVE 3135 - Strength of Materials with Laboratory

**Credits:** 4

**Prerequisite(s):** SSE 2150 with a grade of "C" or better, or permission of instructor

**Description:** Students in this course are introduced to the fundamentals in the strength and deformation of engineering materials. Students focus on the development of constitutive relationships of materials under axial, torsion, transverse shear and bending loading conditions, and the engineering applications in the first part of the course. Students are introduced to beam-deflection

and column-buckling theories and engineering solutions in the second part of the course. Students use laboratory time to enhance the knowledge and theories developed in the class and to use different equipment measuring engineering properties of various materials.

**Cross Listed Course(s):** SSE 3135

### EVE 3160 - Mechanics of Dynamic Systems

**Credits:** 3

**Prerequisite(s):** SSE 2150 OR EVE 2150 with grades of "C" or better, or permission of instructor

**Description:** In this course, students are introduced to dynamics systems, including kinematics, and kinetics of particles and rigid bodies with engineering applications. Students also study the vibration systems in engineering applications.

**Cross Listed Course(s):** SSE 3160

### EVE 3185 - Fundamental Fluid Mechanics with Laboratory

**Credits:** 4

**Prerequisite(s):** SSE 3135 OR EVE 3135 with "C" or better, or permission of instructor

**Prerequisite(s) or Corequisite(s):** MTH 3420 and SSE 3160 OR EVE 3160; with "C" or better, or permission of instructor

**Description:** Students in this course are introduced to the basic principles of fluid mechanics and their use in hydraulic engineering. This course covers the properties of fluids and water, fluid statics, fluid kinematics, mass, energy, and momentum principles within fluid dynamics, dimensional analysis, and boundary layers. Students are introduced to the application of fluid mechanics principles to the analysis of flow in pipes and open channels, as well as forces on immersed bodies. This course contains a laboratory that reinforces fluid mechanics principles, such as hydrostatic forces and Bernoulli's equation, as well as introductory hydraulic engineering applications, including flow in pipes, head loss, and open channel flow.

**Cross Listed Course(s):** SSE 3185

### EVE 3200 - Environmental Sustainability in Urban Design

**Credits:** 3

**Prerequisite(s):** Junior standing, courses SSE 1040 and EVE 1215 or SSE 1215 with grades C or better or permission of instructor.

**Description:** In this course, students are introduced to urban design from a global perspective. The course emphasizes the principles of environmentally sustainable city design through case-studies from around the world.

### EVE 3320 - Environmental Impact Statements in Engineering

**Credits:** 3

**Prerequisite(s):** Junior standing or permission of instructor

**Description:** In this course students will study the physical and legal requirements of the environmental impact statement process. Students will research and document case studies on environmental impact statement.

### EVE 3400 - Engineered Water

**Credits:** 3

**Prerequisite(s):** ENV 1200

**Description:** This course presents an analysis of water as a major resource. It includes the study of the hydrologic cycle; competing water uses, current water problems, and approaches to water management. The relationship of water to land use is examined in terms of dams, watersheds, water laws, pollution, and flood control. Students will propose a design to conserve, reuse, and allocate fresh water resources in a developing country while considering geo-political consequences.

### **EVE 3980 - Internship in Environmental Engineering**

**Credits:** 3

**Prerequisite(s):** EVE major, permission of instructor, Junior or Senior standing

**Description:** Internships provide experiential learning opportunities through practical, hands-on experiences in a professional field related to environmental engineering, and are supervised by a faculty member from the major's department, in conjunction with an industrial advisor. Internship placements must be established in consultation with university's internship office prior to enrollment in this course.

### **EVE 4160 - Geotechnical Engineering with Laboratory**

**Credits:** 4

**Prerequisite(s):** SSE 3135 OR EVE 3135 with grade of "C" or better, or permission of instructor

**Prerequisite(s) or Corequisite(s):** SSE 3185 OR EVE 3185 with grade of "C" or better, or permission of instructor.

**Description:** Students in this course are introduced to the basic principles of soil behavior and their use in geotechnical and geoenvironmental engineering. This course covers soil formation, soil characterization and classification, engineering properties of soil, compaction, fluid flow in soil, stresses in soil, consolidation and settlement, shear strength, and lateral earth pressures. Students are introduced to soil improvement and remediation strategies and the design of earth retaining structures. This course contains a laboratory that covers common geotechnical tests such as sieve analysis, Atterberg limits, hydraulic conductivity, and soil shear strength.

**Cross Listed Course(s):** SSE 4160

### **EVE 4200 - Environmental Policy in Engineering**

**Credits:** 3

**Prerequisite(s):** ENV 1200 and completion of General Studies

**Description:** This course provides an overview of policy related to environmental engineering and major environmental laws in the U.S. The major statutes are analyzed in terms of purpose, scope, implementation, compliance requirements, and impact on land use. Students will review applicable case law and case studies as they apply to current engineering practices.

### **EVE 4420 - Wetland Studies**

**Credits:** 3

**Prerequisite(s):** ENV 1200 and completion of General Studies

**Description:** This course offers a broad overview of wetland landscapes. Topics include: (1) Spatial distribution (local and national), (2) variations in wetlands topology (salt-water versus fresh-water and warmer versus colder climates), (3) relationships between wetlands (migratory flight paths), (4) wetlands ecosystems (5) human impacts on wetlands, (6) federal, state, and local wetlands regulations, and (7) international wetlands problems. Students will evaluate an engineered wetland and explore design, efficacy in nutrient removal and overall land use implications.

### **EVE 4450 - Wood in Engineering**

**Credits:** 3

**Prerequisite(s):** SSE 3135 with a grade of "C" or better or permission of instructor

**Description:** In this course students are introduced to applications of wood design in engineering. Analysis and design of wood structures is presented.

### **EVE 4610 - Senior Design Project**

**Credits:** 3

**Prerequisite(s):** Departmental Permission

**Description:** This is a Senior Experience, capstone design course, focusing on a team design project that incorporates the application of fundamental engineering knowledge and design skills corresponding to the major. The selected project should include formulation of project problem design statements, specifications, planning, and engineering design in consultation with faculty advisors and industry contacts. Through this course students experience the engineering design process by addressing realistic open-ended design problems at the stage of conceptualization, research, construction and testing, analysis, synthesis, and presentation of a deliverable product incorporating sustainability and ethical considerations. The project should reflect the evolution of engineering, technology, and human society with respect to environmental, economic, and social sustainability to meet the needs of development of industry and the human community.

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** SSE 4610

## **Environmental Science**

### **ENV 1200 - Introduction to Environmental Science**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

**Description:** This course introduces students to environmental concepts and issues from an interdisciplinary approach. Students will gain an understanding of the scientific methods and techniques needed to understand the and analyze environmental issues such as ecology, human population growth, soils and agriculture, deforestation, urbanization, air pollution, freshwater resources, ocean pollution, climate change, fossil fuels, alternative energy sources, waste disposal, as well as environmental ethics and policy. Course topics will be complemented with computer exercises.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **ENV 1540 - Geologic and Environmental Hazards-Denver and Vicinity**

**Credits:** 2

**Prerequisite(s):** GEL 1010 recommended

**Description:** This course examines the geologic and environmental hazards around the Denver region, including mass wasting, swelling clays, subsidence and flooding, as well as contamination and remediation efforts at the Lowry Landfill and the Rocky Mountain Arsenal. Future homeowners learn the meaning of "buyer beware."

*Note: Students cannot take both ENV 1540 and ENV 3540 for credit.*

### **ENV 2100 - Environmental Sampling and Analysis**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1910 or GEG 1100 or BIO 1080 or CHE 1800

**Description:** Environmental data, including water, soil, and plant pollution testing and monitoring, is commonly used to indicate the health of an ecosystem. This course exposes students to a variety of methods and techniques used in environmental sampling. Students learn how to collect environmental samples in the field, analyze their results, and summarize the implications of the results. Additionally, risk analysis and human subject testing are explored as they relate to environmental problems such as water quality taste testing, environmental pathogens, and setting environmental standards for air, water, and soil pollution. As part of this course, students learn the components of doing high impact environmental research and have the opportunity to design a research proposal.

### **ENV 3000 - Environmental Engineering Fundamentals**

**Credits:** 3

**Prerequisite(s):** CHE 1810, CHE 1811, MTH 2410, ENV 1200

**Description:** In this course, students are exposed to the interplay between humans, our activities, and the environment around us. Over the course of the semester, they will explore anthropogenic and natural effects on air and water quality, how these systems operate and the application of applied sciences (e.g., physics, chemistry, and biology) to the natural world.

*Note: Credit will be granted for only one prefix: CET or ENV.*

**Cross Listed Course(s):** CET 3000

### **ENV 3010 - Applied Pollution Science**

**Credits:** 3

**Prerequisite(s):** ENV 1200, CHE 1800, and CHE 1810, or permission of instructor

**Description:** This course introduces students to the abiotic and biotic processes within the soil/water/atmosphere continuum that affect the fate and transport of pollutants. The extent, fate, mitigation, and impact of environmental pollution are examined through applied examples and case studies.

### **ENV 3100 - Air Pollution**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or MTR 2400

**Description:** This course examines the causes and control of air pollution. Topics include pollutant sources and sinks, regional and global-scale pollution problems, monitoring and sampling techniques, regulatory control, meteorological influences, and indoor air quality.

**Cross Listed Course(s):** MTR 3100

### **ENV 3250 - Colorado Water Law and Water Rights Administration**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy, and Junior Standing

**Description:** This course provides students with an in-depth study of the unique nature of Colorado water law and Colorado water rights administration. The course will survey the key issues surrounding the legal framework governing the allocation of water resources, administrative processes affecting water distribution, and policy considerations that influence decisions about the use and management of water resources in the state of Colorado. An overview of Colorado climate, geology and hydrology, as well as a review of Colorado's early water use and development will provide the context for the study of the legal system with which the state and its citizens allocate water.

*Note: Credit will be granted for only one prefix: ENV or MGT.*

**Cross Listed Course(s):** MGT 3250

### **ENV 3300 - Principles of Ecological Restoration**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100 or MTR 1600 or GEG 1910 or GEL 1010

**Description:** This course investigates the fundamentals of ecological restoration. Students learn the process of developing restoration plans for degraded sites, including conducting a site analysis, building a master plan for restoration, implementing the plan, and monitoring the site after restoration.

### **ENV 3340 - Climate Change Science**

**Credits:** 3

**Prerequisite(s):** MTR 1600 or GEG 1100 or ENV 1200 or GEL 1010 or GEL 1150 or MTR 1400

**Description:** This course examines the physical mechanisms of climate change through an integrative earth systems science lens. These processes explain many of the observed changes within the atmosphere, hydrosphere, cryosphere, biosphere, and lithosphere of the planet. Aspects of dynamic climate change include movement of energy through the Earth system, atmospheric and oceanic circulation, and hydrologic and carbon cycles. This understanding is applied to interpreting climate model projections, with keen attention to climate sensitivity, time scales of changes, and sources of uncertainty in climate prediction. An understanding of the physical processes driving climate models facilitates an examination of climate change impacts on natural and societal systems.

**Cross Listed Course(s):** MTR 3340

## ENV 3400 - Water Resources

**Credits:** 3

**Prerequisite(s):** MTH 1108 or MTH 1110 or MTH 1112; ENV 1200 or GEG 1100; Completion of General Studies

**Description:** This course presents an analysis of water as a major resource. It includes the study of the hydrologic cycle, competing water uses, current water problems, and approaches to water management. The relationship of water to land use is examined in terms of dams, watersheds, water laws, pollution, and flood control. Topics introduced in this class include hydrology, hydrogeology, water quality analysis, water treatment, wastewater treatment, and both U.S. and international water resource management.

## ENV 3420 - Soil Resources

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEL 1010 or GEG 1100

**Corequisite(s):** ENV 3422 or GEL 3422 or GEG 3422

**Description:** This course analyzes the materials and processes that combine to produce various soil types. Soil types are examined in relationship to climate, landforms, vegetation, and geology, as well as in relation to land-use patterns.

*Note: This course is cross-listed as GEG 3420, ENV 3420, and GEL 3420. Students can only take one of the courses for credit.*

**Cross Listed Course(s):** GEG 3420, GEL 3420

## ENV 3422 - Methods of Soil Analysis and Sampling

**Credits:** 1

**Prerequisite(s):** ENV 1200 or GEG 1100 or GEL 1010

**Corequisite(s):** GEL 3420 or GEG 3420 or ENV 3420

**Description:** This course surveys measurement techniques and principles used in characterizing the physical and chemical properties of soils. It includes soil sampling techniques, analysis of experimental design, sources of experimental error, and standard and instrumental methods of chemical analysis.

*Note: Credit will be granted for only one prefix, ENV, GEL, or GEG*

**Lab Fees:** \$25

**Cross Listed Course(s):** GEG 3422, GEL 3422

## ENV 3440 - Energy and Mineral Resources

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or ENV 1200 or permission of instructor

**Description:** This course provides an overview of the Earth's energy and mineral systems with an emphasis on origin, characteristics, distribution, and the interaction of people and geologic resources.

*Note: Credit will be granted for only one prefix.*

**Field Trips:** Field trips are required

**Cross Listed Course(s):** GEG 3440, GEL 3440

## ENV 3540 - Advanced Geologic and Environmental Hazards-Denver and Vicinity

**Credits:** 2

**Prerequisite(s):** nine hours of geography or geology or Permission of instructor

**Description:** This course requires an analytical approach to the geologic and environmental hazards around the Denver region, including mass wasting, swelling clays, subsidence and flooding, as well as contamination and remediation efforts at the Lowry Landfill and the Rocky Mountain Arsenal. Future homeowners learn the meaning of "buyer beware."

*Note: Students cannot take both ENV 1540 and ENV 3540 for credit.*

## ENV 3620 - Population, Resources, and Land Use

**Credits:** 3

**Prerequisite(s):** GEG 1000 or ENV 1200 or GEG 1300

**Description:** This course examines the distribution and density of the global population, the drivers of population growth, and the influence population, development, and affluence have on environmental issues.

## ENV 3700 - Mountain Environments

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100 or MTR 1600 or GEG 1910 or GEL 1010

**Description:** The course examines integrated mountain ecosystems, particularly in the Front Range of Colorado. Topics examined include vegetation distribution, climates, landforms and processes, wildlife, and human impacts.

## ENV 3710 - Environmental Remediation

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1091, CHE 1800, and junior standing; or permission of instructor

**Description:** This course presents technologies available for reclaiming contaminated sites and reducing health risks. Physical, chemical, and biological technologies will be examined for the cleanup of hazardous wastes. Students will integrate the nature of hazardous wastes, the behavior of chemicals at the surface and subsurface, and technological applications. Students will design a monitoring program for assessing the applicability of site cleanup and analyze the data from a site monitoring program.

## ENV 3720 - Waste Management

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1091, CHE 1800, and junior standing; or permission of instructor

**Description:** Waste generation, human health, waste treatment, disposal methods, recycling as well as environmental hazards will be examined in this course. Students will research the policies that govern transportation and disposal of waste. Laws and agency regulations will be examined to determine their effectiveness in reducing, remediating, and containing waste.

## ENV 3730 - Environmental Risk Assessment

**Credits:** 3

**Prerequisite(s):** ENV 1200, 9 hours coursework in any of the following Environmental Science, Geology, Physical Geography, Biology, Chemistry, and Meteorology courses, junior standing; or permission of instructor

**Description:** Risk is an important component of regulatory decision making. Since risk assessment has no "correct" answers, this course explores what risk perception, risk management, and risk communication mean. Students will learn how to weigh the costs and benefits of risk reduction and how to evaluate the uncertainties in risk estimates. Case studies will be used to help explain the principles.

#### ENV 3740 - Environmental Health

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1091, CHE 1800, and junior standing; or permission of instructor

**Description:** This course addresses local, regional and global environmental issues affecting human health and policies. Environmental toxins and carcinogens, impacts on human health, dose response, occupational health, risk assessment strategies are discussed. A field trip to an environmental health agency is required.

#### ENV 3920 - Directed Study in Environmental Science

**Credits:** 2-6

**Description:** This course provides an opportunity for upper-division students with a strong background in environmental science to pursue a specific research topic of interest with a faculty member. The course requires permission of the instructor and chair of the Department of Earth and Atmospheric Sciences.

#### ENV 3980 - Internship in Environmental Science

**Credits:** 1-15

**Prerequisite(s):** Major in Environmental Science; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Variable Credit*

#### ENV 4000 - Geologic Hazards

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100 or GEL 1010 or permission of instructor

**Description:** This course investigates natural hazards that affect solid Earth. Case studies of exceptional and recent events link natural

hazards to Earth's geologic processes and structures. The distribution, frequency, impact, and predictability of natural disasters, as well as strategies for reducing human injury and loss, are also considered.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** GEL 4000

#### ENV 4010 - Environmental Hazards and GIS

**Credits:** 3

**Prerequisite(s):** ENV 4000; GEG 3610 recommended

**Description:** This course evaluates environmental hazards relative to various land-use patterns. It utilizes case studies and Geographical Information Systems (GIS) to examine hazards and prepare models.

#### ENV 4150 - Hydrology (Surface Water)

**Credits:** 4

**Prerequisite(s):** GEG 1100 or GEG 1910 or ENV 1200 or GEL 1010, and General Studies Quantitative Literacy complete

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** In this course, students examine surface waters with respect to water flow, drainage systems, storage, pollution and environmental relationships. The hydrologic cycle is studied with respect to the amount and distribution of water, the movement and fluxes of water and current water-related issues. Topics addressed include hydrologic data sources, statistical analysis in hydrologic problem-solving, snow and snowmelt, hydrograph analysis, hydrographic routing, hydrologic modeling and current challenges of urban hydrology, hydrologic models and hydrologic design. Use of spreadsheet software is required.

*Note: Credit will be granted for only one prefix: ENV, GEL, GEG, or HON.*

**Cross Listed Course(s):** GEG 4150, GEL 4150, HON 4150

#### ENV 4200 - Environmental Policy and Planning

**Credits:** 3

**Prerequisite(s):** ENV 1200 and completion of General Studies

**Description:** This course provides an overview of environmental policy and major environmental laws in the U.S. The major statutes are analyzed in terms of purpose, scope, implementation, compliance requirements, and impact on land use. Case studies are examined in a planning context.

#### ENV 4250 - Hydrogeology (Groundwater)

**Credits:** 4

**Prerequisite(s):** GEL 1010, CHE 1800, MTH 1110

**Prerequisite(s) or Corequisite(s):** GEL 3420

**Description:** This course is a practical approach to the study of groundwater with emphasis on water quality, underground flow, pumping, and infiltration/recharge principles in relationship to the geologic environment. The course includes practical methods of laboratory water quality testing, groundwater flow analysis and experimentation, as well as septic system design and evaluation. Since mathematical models are involved, familiarity with graphing and algebraic operations is of essence. A foundational knowledge in geology is prerequisite.

*Note: Credit will be granted for only one prefix*

**Field Trips:** Self-guided group fieldtrips are required for this course

**Cross Listed Course(s):** GEG 4250, GEL 4250

### **ENV 4400 - Landscape Ecology**

**Credits:** 3

**Prerequisite(s):** ENV 1200, GIS 2250; or permission of instructor

**Description:** Students will examine the effects of spatial pattern and scale on ecological processes. Concepts, tools, and techniques that enhance the effectiveness of watershed and ecosystem management, design of green infrastructure, and smart growth are explored. Students will learn how the concepts of landscape ecology apply to environmental policy, management, regulation, and assessment.

### **ENV 4410 - Water Law**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or ENV 1400 or ENV 3400 or

Permission of instructor

**Description:** This course surveys U.S. water law and administration. Topics include (1) why we need laws regulating water use, (2) how ancient water laws influenced U.S. water law, (3) variations of surface and groundwater law, including prior appropriation, riparian, and hybrid, (4) international and interstate agreements, and (5) a special focus on water administration in the West.

*Note: Credit will be granted for only one prefix: ENV or HON.*

**Cross Listed Course(s):** HON 4410

### **ENV 4420 - Wetlands**

**Credits:** 3

**Prerequisite(s):** ENV 1200 and completion of General Studies

**Description:** This course offers a broad overview of wetland landscapes. Topics include (1) spatial distribution (local and national), (2) variations in wetlands topology (salt-water versus fresh-water and warmer versus colder climates), (3) relationships between wetlands (migratory flight paths), (4) wetlands ecosystems, (5) human impacts on wetlands, (6) federal, state, and local wetlands regulations, and (7) international wetlands problems.

### **ENV 4430 - Habitat Planning**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100

**Description:** This is an interdisciplinary course designed to examine the forces and impacts of urban expansion and other human activities (e.g., recreation, transportation, energy development) on ecological processes and wildlife habitats. Topics include conservation biology principles, problems with wildlife habitat conservation, and planning solutions to preserve wildlife habitat. Multiple spatial and political scales provide the context for analysis.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** GEG 4430

### **ENV 4440 - Limnology**

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1081, and BIO 1091; or permission of the instructor

**Description:** This course examines the study of lakes, reservoirs, and ponds as inland water ecosystems. The physical, chemical, and biological components of inland waters are examined. The course investigates how lakes are formed and how they evolve over time. The shape of the lake basin, its water balance, and the catchment area are studied with respect to their influence on the ecology within the lake. Students learn how to assess the health of a lake, how to examine water quality, how to handle aquatic weed problems, and how to manage a lake fishery.

**Field Trips:** A one-day field trip to a lake, pond, or reservoir is required.

### **ENV 4450 - Stream Ecology**

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1081, and BIO 1091; or permission of the instructor

**Description:** This course explores the diversity of running water ecosystems throughout the world by examining the chemistry, physical features, and biology of stream ecosystems. Principles of stream ecology will be used to examine local stream ecosystems ranging from those found in the mountains to the prairies. The relationship among a stream, its watershed, floodplain, and riparian zone will be studied. Human activities that alter water quality, chemistry, and the ecology of a stream will be investigated, as well as methods to mitigate and protect lotic (flowing water) ecosystems.

**Field Trips:** Students will have an opportunity to apply what they have learned in the classroom during a mandatory, one-day field trip.

### **ENV 4460 - Advanced Water Quality Analysis**

**Credits:** 3

**Prerequisite(s):** CHE 1800, CHE 1801, CHE 1810, CHE 1811, and ENV 2100

**Description:** This course examines the interplay between humans, our activities, and water quality. Topics include nutrient cycling, water and wastewater treatment, chemical and biological contamination, and hydraulics. This course uses problem based learning through modeling to examine water quality using real world examples and mass balance evaluations. Field trips to water and wastewater treatment plants are required.

### **ENV 4470 - Snow Hydrology**

**Credits:** 3

**Prerequisite(s):** ENV 1200; GEG 1910 or ENV 3400

**Description:** This course focuses on snow processes and their function as part of the hydrologic cycle. The course covers snow formation in the atmosphere, snow accumulation and measurement, snow distribution, snowpack metamorphism and basic energy exchange principles, snow chemistry, snow ablation and runoff, watershed processes, and snow management issues. Course content is amplified through case studies and/or field trip(s).

*Note: Credit will be granted for only one prefix: ENV or GEG*

**Cross Listed Course(s):** GEG 4470

## ENV 4500 - Environmental Biogeochemistry

**Credits:** 3

**Prerequisite(s):** ENV 1200, BIO 1091, CHE 1801 and CHE 1811, junior standing; or permission of instructor

**Description:** This course examines the chemical processes and pathways by which inorganic and organic chemical species interact within aquatic and terrestrial ecosystems. Environmental factors that control the chemical composition and bioavailability will be emphasized for both natural and human-impacted (polluted) systems.

## ENV 4910 - Global Environmental Field Problems: Variable Topics

**Credits:** 3

**Prerequisite(s):** ENV 1200, 9 credit hours in any of the following Environmental Science, Geology, Physical Geography, Biology, Chemistry, Meteorology, junior standing; or permission of instructor

**Description:** Students will use field techniques to research and analyze global environmental problems. Possible field experiences will examine environmental or ecological change by traveling to the Sangre de Cristo Mountains of Colorado, the Sonoran desert in Arizona, or alpine and periglacial regions of Alaska. This course may be repeated three times for credit under different topics for a maximum of nine hours.

## ENV 4920 - Topics in Environmental Science: Variable Topics

**Credits:** 3

**Prerequisite(s):** ENV 1200, 9 credit hours in the following Environmental Science, Geology, Physical Geography, Biology, Chemistry, and Meteorology, and junior standing; or permission of instructor

**Description:** Content of this course will vary according to contemporary environmental issues. This course may be repeated twice under different topics for a maximum of 6 hours.

## ENV 4950 - Internship in Environmental Science

**Credits:** 2-15

**Prerequisite(s):** Environmental Science or Land Use major with concentration in environment and resources, junior standing, 12 credit hours in environmental science, permission of EAS department chair.

**Description:** This course provides an on-the-job internship experience with an environmental science-related company or agency. The experience must be done under qualified supervision and the auspices of an Earth and Atmospheric Sciences faculty member.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

## ENV 4960 - Global Environmental Challenges

**Credits:** 3

**Prerequisite(s):** Twelve hours of upper division courses in geology, geography, biology and/or meteorology or written Permission of instructor, and Senior standing

**Description:** This course will include the identification of major global environmental problems, including causes and impacts and the interplay of economic, cultural, and political forces. The approach will be a geographic analysis including location, spatial distribution, density, boundaries, and physical factors such as landforms, soils, and climate. Students are responsible as individuals and groups for presentations and discussions.

*Note: Credit will be granted for only one prefix: ENV or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HON 4960

## ENV 4970 - Environmental Field Studies

**Credits:** 3

**Prerequisite(s):** 12 hours of upper-division courses in geology, physical geology, biology, and/or meteorology, and/or written permission of instructor; completion of General Studies requirements; and senior standing.

**Description:** This course is a senior-level capstone course for land use and environmental science majors that will address current local environmental issues in Colorado through site visits and field techniques. Topics covered include: Denver air quality, water quality, sustainability, and waste disposal. Field trips will be taken to local environmental sites and agencies.

**University Requirement(s):** Senior Experience

## Event Management

### EVT 1051 - Wedding Planning

**Credits:** 3

**Description:** This course introduces students to the basic concepts involved in becoming a professional wedding planner. It covers the various details of planning the wedding and the basics of managing an independent wedding planning business.

### EVT 2010 - Introduction to The Event Industry

**Credits:** 3

**Description:** This course presents an overview of the major segments of events industry: meetings, expositions, events, and conventions. The roles and responsibilities of destination marketing organizations and destination management companies will be reviewed. The relationship between general and service contractors and professional events will be examined and their specific functions will be discussed and evaluated. This course highlights the role of the event planner, whose responsibilities include planning, organizing, directing, and controlling various types of events.

### EVT 2020 - Event Project Planning

**Credits:** 3

**Description:** This course provides an overview of project

management as an identification and explanation for the building blocks of an event from start to finish. The project triangle is introduced and demonstrates the construction of an event. Students will define the scope, create well-defined requirements, and develop work breakdown structures for an event. Task and precedence diagramming will be taught to develop the event schedule and master task list. Students will also learn to construct an event project communications plan for the purpose of communicating with internal and external stakeholders. The final portion of the course is designed to teach students to close out the function and visualize the lessons learned from the production of the event.

### **EVT 3000 - Event Catering Strategies**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** In this course, students examine the strategies required of meeting and event planners tasked with the development and coordination of food and beverage functions within a variety of meetings and events. Students analyze food and beverage consumption patterns of meeting attendees, identify various service requirements, meal styles and functions, distinguish between on and off-site catering requirements, examine the relationship between the catering department and other departments within a hotel, plan and design sample group menus, and determine appropriate pricing strategies and contractual requirements for meeting and event group functions.

### **EVT 3010 - Event Support Systems**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** In this course, students will examine event objectives and potential sponsorship opportunities for nonprofit events as they relate to the event budget. The course will provide students with an opportunity to apply current industry software to manage attendee registration, volunteer management, audiovisual requirements, and event space management. In addition, students will produce reports of the key service providers related to attendee accommodations, transportation, ancillary activities, and post-event evaluations.

### **EVT 3100 - Corporate Meetings**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** This course focuses on how to coordinate and manage corporate meetings. Students organize a hypothetical corporate meeting from beginning to end. Hospitality industry standard forms and meeting management software are introduced and utilized. Students also develop goals and objectives, organize logistical components, and evaluate the return on investment of the meeting. Students also analyze contractual needs based on goals and objectives of the meeting. Potential risks to the meeting are assessed and considerations for a corresponding contingency plan are outlined.

### **EVT 3200 - Conventions and Trade Shows**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** This course focuses on program planning and logistics management for citywide conventions with corresponding trade shows, as well as freestanding tradeshow and exhibition management. Students will include a project presentation demonstrating the student's ability to plan, promote, budget, and execute a large-scale, multi-day and/or multi-venue meeting with an exhibition.

### **EVT 4020 - Event and Meeting Contracting**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** This course explores a variety of event and meeting industry negotiations and contracts. Students develop the necessary skills to recognize business situations requiring bargaining and/or negotiation to achieve acceptable outcomes for both parties. The course emphasizes the importance of being able to identify and analyze the numerous and varied letters of agreement and contracts prevalent in the meeting and event industry, including but not limited to hotel, convention center, restaurant, special event center, country club and both indoor and outdoor festival space. Students create and analyze banquet and event orders (BEOs), entertainment riders, and agreements between clients facilities and third-party, independent planning companies or consultants.

### **EVT 4030 - Advanced Planning and Risk Management**

**Credits:** 3

**Prerequisite(s):** HLDR 2100, EVT 2020, EVT 3000, EVT 3010, EVT 3100, EVT 3200, EVT 4020, EVT 4100, EVT 4200

**Description:** This course applies core meeting and event management concepts to the organization and execution of either a simulated, virtual, or an actual event. Drawing upon knowledge and skills acquired in pre-requisite events courses, students develop a complete project plan, including goals and objectives, budget estimate, sponsorship acquisition if appropriate, marketing and promotion strategies, program and logistics planning and post-event evaluation. In addition, students will analyze various risk management strategies for meetings and events to create a risk management plan for their particular event.

**University Requirement(s):** Senior Experience

### **EVT 4100 - Special Event Production**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** This course examines the required equipment, professional personnel and licensing required to achieve and produce a special event, with specific emphasis placed on outdoor festivals, social galas, and fundraisers. Using the planning process for a festival as an example, students determine the appropriate vendors and expert support staff required to resolve specific logistical and/or technical production challenges. Students also delineate the needs of event stakeholders and practice various communication techniques appropriate for working with each group effectively.

## **EVT 4200 - Global Meetings and Events**

**Credits:** 3

**Prerequisite(s):** HLDR 2100

**Description:** This course compares and contrasts domestic meeting and event planning with the planning and management of programs outside the United States. It highlights the differences between the United States and international destinations with regard to venues, business practices, budgeting and currency issues, program planning and risk management. Students identify potential areas of cross-cultural miscommunication during the planning process and learn how to apply and correct international etiquette and protocol on site.

## **Exercise Science**

### **EXS 1020 - Resistance Training Techniques**

**Credits:** 3

**Description:** This is an introductory course that will allow students to enhance their knowledge and experience regarding resistance training. Regardless of experience, all students will learn proper exercise technique and terminology (through skill analysis and muscle anatomy) and basic resistance training programming methods. This course is not designed to help the student design resistance training programs for other individuals.

### **EXS 1640 - Physical Fitness Techniques and Programs**

**Credits:** 3

**Description:** This course is designed to provide the student basic skills, practice, and theory in physical fitness. Major components of muscular strength, muscular endurance, cardiovascular endurance, flexibility and body composition are discussed. Exercise prescription, administration and leadership skills are enhanced through active participation.

### **EXS 2890 - Personal Training Concepts and Application**

**Credits:** 3

**Prerequisite(s):** EXS 1020

**Description:** This class is designed to introduce students to the personal training profession from a variety of perspectives. While program design and training techniques will be presented, these concepts are not the focus of the course. Emphasis will be placed on an exploration of the various settings where personal training services are offered and the business elements that all professional personal trainers should comprehend. Class discussions, lectures, hands-on exercise lessons and demonstrations will help students gain a greater awareness of what it takes to be a competent, professional personal trainer.

### **EXS 3780 - Fitness Programs for Special Populations**

**Credits:** 2

**Prerequisite(s):** EXS 1640

**Description:** This course is designed to help fitness professionals adapt exercise prescription to meet the needs of people with special exercise requirements. Special populations may include people with

diabetes, asthma, metabolic disorder, anxiety, multiple sclerosis and arthritis, as examples.

### **EXS 3790 - Fitness Programming for Children, Adolescents, and Older Adults**

**Credits:** 3

**Prerequisite(s):** EXS 1640

**Description:** The course is designed to introduce students to physiological, cognitive and psychological changes that occur from birth through adolescence and in the later stages of life. The role of physical activity and exercise will be explored in each of these life stages. Considerations for exercise assessment and prescriptions will be addressed for a number of chronic conditions, such as but not limited to: metabolic syndrome, diabetes, cardiovascular, osteoporosis, and neurological conditions.

### **EXS 3841 - Comparative Fitness Programs**

**Credits:** 2

**Prerequisite(s):** EXS 1640, BIO 2320

**Description:** In this course students will explore: 1) current trends, issues and environments in fitness management, 2) comparison of selected popular fitness and evaluation programs, 3) certification programs and employment available for fitness personnel. This course will provide opportunity for on-site visitations as well as practical experience with different programs.

### **EXS 4650 - Exercise Electrocardiography**

**Credits:** 3

**Prerequisite(s):** HPS 3340

**Description:** This course is designed to provide students with an overview of the basic interpretation of an electrocardiogram (ECG). Emphasis will be placed on identification of atrial and ventricular arrhythmias, myocardial ischemia and infarction. Students will become versed in components of cardiovascular physical exam as well as different cardiovascular exercise assessments.

### **EXS 4680 - Advanced Fitness Assessment and Exercise Prescription**

**Credits:** 4

**Prerequisite(s):** EXS 1640, HPS 3340

**Description:** This course is designed to acquaint the student with the art and science of exercise fitness assessment and exercise prescription. Students will learn contemporary techniques for physical fitness assessment. Additionally, the maintenance of exercise laboratory equipment used to evaluate physiological capabilities during exercise will be covered. After completing the class, students will be expected to be competent to conduct fitness assessments and to prepare exercise prescriptions for a variety of populations. Practical skills tests to demonstrate each student's competence in these areas will be required.

### **EXS 4772 - Advanced Strength and Conditioning**

**Credits:** 3

**Prerequisite(s):** EXS 1640, HPS 3300

**Description:** This course will identify and elaborate upon important concepts from basic resistance training technique to biomechanics and exercise physiology. Emphasis will be placed on their application in designing appropriate goal-oriented strength and power training programs for specific athletic populations. Students will also learn about the technique and mechanical characteristics of several advanced weight training exercises commonly used in athletic populations and other fitness programs.

### **EXS 4780 - Community Fitness Testing and Program Planning**

**Credits:** 3

**Prerequisite(s):** EXS 4680

**Description:** This course is designed to provide the student with the opportunity to conduct laboratory fitness assessments, evaluate test results and develop exercise prescriptions. In addition, the student will be expected to become knowledgeable with regard to the promotion and marketing of fitness programs.

### **EXS 4880 - Internship in Exercise Science**

**Credits:** 10

**Prerequisite(s):** Senior Standing; completion of all major courses; 2.75 GPA

**Description:** This course is designed for the exercise science major to acquire practical experience in the fitness field. It is a senior experience.

**University Requirement(s):** Senior Experience

## **Finance**

### **FIN 2220 - Small Business Financing**

**Credits:** 3

**Prerequisite(s):** Satisfaction of General Studies Quantitative Literacy requirements and at least Sophomore Standing

**Description:** This course is an entry-level finance course recommended for students intending to start their own business. Students will learn basic financial and economic concepts important in the operation of a small and entrepreneurial business, time value of money techniques, and working capital management. Students will then learn how to apply these concepts to create value in the business. Sources of financing for the small business are also extensively presented and discussed.

### **FIN 2250 - Personal Money Management**

**Credits:** 3

**Prerequisite(s):** Sophomore standing and non-business majors

**Description:** This survey course is oriented to the identification and solution of personal financial problems. The subject matter ranges from the determination of one's financial condition to estate planning, including controlling credit usage, making major purchase decisions, buying insurance, making investments, and planning retirement.

*Note: Credit will be granted for either FIN 2250 or FIN 3150, not both. Business majors cannot take FIN 2250.*

### **FIN 2370 - Money Issues for Women**

**Credits:** 1

**Description:** The economic and social circumstances of women's lives in the United States often place them in a different material and psychological relationship to money and issues surrounding money than men. This course will review a variety of issues women face when planning for the future, as well as some of the tools used to build a secure future.

*Note: Credit will be granted under one prefix only: CPD or FIN.*

**Cross Listed Course(s):** CPD 2370

### **FIN 3010 - Financial Markets and Institutions**

**Credits:** 3

**Prerequisite(s):** ACC 2010 with a grade of "C" or better, ECO 2010, ECO 2020 and At least junior standing

**Description:** This course provides a framework for understanding our financial environment, including markets, institutions, and securities. Each type of market and how financial institutions use it, its internationalization, and recent events that have affected it, are studied.

### **FIN 3100 - International Money and Finance**

**Credits:** 3

**Prerequisite(s):** ECO 2010, ECO 2020 and At least junior standing

**Description:** This course covers the basics of the foreign exchange market, the balance of payments, parity conditions in international finance, foreign exchange risk and forecasting, the financing of international activities, and international capital flows. The course will focus on the financial management of the multinational firm.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** HON 3103

### **FIN 3150 - Personal Financial Planning**

**Credits:** 3

**Prerequisite(s):** Business major or minor with at least junior standing

**Description:** This course is an introduction to the field of personal financial planning for business students. The student will study money management, investments, insurance, employee benefits, retirement planning, and estate planning, as they relate to individual and family financial planning.

### **FIN 3300 - Managerial Finance**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Oral Communication requirements; ACC 2010; MTH 1320 or MTH 1410 with a grade of "C-" or better; ECO 2010; ECO 2020; and at least junior standing.

**Description:** This is a study of the dynamic environment of financial management, exposing students to various finance topics such as financial analysis and forecasting, time value money, security valuation, capital budgeting, risk and return, cost of capital, working capital management and international finance.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** HON 3302

### **FIN 3320 - Entrepreneurial Finance**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** The course is designed to acquaint students with the basic concepts of obtaining funds for the start-up and financing the continued growth of the firm. The course covers start-up financing, growth capital, daily financial management, valuation, and strategic financial planning.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** HON 3321

### **FIN 3420 - Principles of Insurance**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course explores the underlying principles of insurance, and the need for insurance in a progressive, dynamic society. It includes an introductory examination of insurable risks, uses of insurance, as well as a study of the important coverages that are currently available.

### **FIN 3450 - Retirement Planning and Employee Benefits**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** A course designed for the typical employee, describing common retirement plans in the workplace as well as personal savings plans used to provide retirement income. The course discusses such common employer-sponsored retirement plans as a Section 401(k) plan for employees of a for-profit business, a Section 403(b) plan for educators, and a Section 457(b) plan for State and local government employees. Such plans are considered in both the accumulation and distribution stages of retirement. Also included in the course is retirement funding strategies and personal saving strategies, such as the uses of Individual Retirement Accounts (IRAs) and annuities to plan for retirement. Government retirement plans, such as Social Security, are also considered.

### **FIN 3600 - Investments**

**Credits:** 3

**Prerequisite(s):** FIN 3300 with a grade of "C" or better and At least junior standing

**Description:** This course is a survey of the organization and regulation of security markets; security analysis and valuation; and principles of portfolio management from the viewpoint of the individual investor.

### **FIN 3800 - Real Estate Practice and Law**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course surveys the principles and practices of real estate. Subject areas treated include the nature and description of real

estate, real property interests and ownership, finance, appraisal, contract and agency law, and real estate investment.

### **FIN 3810 - Advanced Real Estate Practice and Law**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** FIN 3800 and junior or senior standing

**Description:** This course builds upon the material covered in FIN 3800 by providing expanded, in-depth coverage of the topics as well as introducing some new topics to provide a broad coverage of the field of Real Estate and to prepare the student for licensing examinations.

### **FIN 3850 - Intermediate Finance**

**Credits:** 3

**Prerequisite(s):** FIN 3300 with a grade of "C" or better, and At least junior standing

**Description:** This is an advanced, integrated study of investment risks and returns, the development of modern portfolio theory, financial statements, capital budgeting, and working capital issues. Use of financial calculators and Excel spreadsheets is required to analyze financial problems.

### **FIN 3980 - Internship in Finance**

**Credits:** 1-15

**Prerequisite(s):** Major in Finance; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **FIN 4200 - Financial Modeling with Spreadsheets**

**Credits:** 3

**Prerequisite(s):** FIN 3300, FIN 3600, and FIN 3850 (all with a grade of "C" or better), CIS 2010 and senior standing

**Description:** This course provides the student with a strong set of financial analysis skills to use in building complex financial models utilizing electronic spreadsheets. The topics covered include building financial statements, analysis of financial statements, modern portfolio theory, capital budgeting, regression analysis, and both linear and nonlinear programming for financial applications.

### **FIN 4400 - Estate Planning**

**Credits:** 3

**Prerequisite(s):** Business major or minor with At least junior standing

**Description:** The course provides the student with the basic concepts of estate planning and importance in overall financial planning. The course covers the tools and techniques of estate planning so as to arrange the efficient future wealth transfers to maximize the financial well being of both the individual and recipients of the wealth transfer.

#### **FIN 4500 - Analysis of Financial Statements**

**Credits:** 3

**Prerequisite(s):** FIN 3850 with a grade of "C" or better and Senior standing

**Description:** An in-depth study of current financial reporting practices, analysis and interpretation of corporate financial statements, utilizing text and selected cases.

#### **FIN 4600 - Security Analysis and Portfolio Management**

**Credits:** 3

**Prerequisite(s):** FIN 3600, FIN 3850 with a grade of "C" or better in both and Senior standing

**Description:** This course is designed to provide students with a comprehensive understanding of security analysis and portfolio management. The focus of the course is on selecting the appropriate securities and managing the portfolio to meet the investor objectives. This is the capstone and assessment course for finance majors with a concentration in financial services.

#### **FIN 4660 - Advanced Investment Management**

**Credits:** 3

**Prerequisite(s):** FIN 3600

**Description:** AIM will be an advanced class that builds on the foundations of lower level courses in investments, corporate finance and security analysis, among others. It offers students valuable exposure to investment practices, including security analysis, portfolio construction, risk analysis and return attribution. AIM requires students to manage a live equity portfolio with actual cash value. In addition to a deeper academic knowledge of important concepts in the world of finance, students gain practical experience and demonstrable skills to make them attractive to potential employers in a range of financial service firms.

#### **FIN 4700 - Special Topics in Finance**

**Credits:** 3

**Prerequisite(s):** Senior standing and approval of the Finance Department chair

**Description:** This is an in-depth study of selected topics in finance not available otherwise in the curriculum. Typically, this course will focus on current issues or developments in finance, and the content will vary.

*Note: This course may be repeated for credit under different topics.*

#### **FIN 4750 - Seminar in Personal Financial Planning**

**Credits:** 3

**Prerequisite(s):** FIN 3420, FIN 3450, FIN 3600, FIN 4400 and ACC 3090

**Description:** This is a senior-level integrative course for finance majors concentrating in personal financial planning. It brings together the various aspects of financial planning with heavy emphasis on case studies.

#### **FIN 4950 - Financial Strategies and Policies**

**Credits:** 3

**Prerequisite(s):** FIN 3600, FIN 3850 with a grade of "C" or better in both, Senior standing, and completion of all business core courses except MGT 4950

**Description:** This course takes an integrated case study approach to financial management. Emphasis is on presentation of analyses and recommendations for strategies and policies. This is the capstone and assessment course for finance majors with a concentration in general finance. Proficiency in personal computer and word processing and spreadsheet applications is necessary.

### **Fire and Emergency Services**

#### **FER 1020 - Introduction to Trauma Informed Care for First Responders**

**Credits:** 3

**Description:** Students will be introduced to the concept of Trauma-Informed Care (TIC) and how agencies, Human Services professionals, and first responders can utilize this model to benefit clients. Students will describe and define what TIC is and ways in which traditional interventions can be modified to increase the sense of safety experienced by clients and those who work with them. Students will learn how to incorporate trauma-informed practices into interventions with diverse populations, especially those with Post-Traumatic Injury and/or Post-Traumatic Stress Disorder (PTSD). Students will also examine strategies for identifying and managing vicarious trauma and compassion fatigue.

#### **FER 3000 - Applications of Fire Research**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** The students will examine the basic principles of research and methodology for analyzing current fire-related research. The course also provides a framework for conducting and evaluating independent research in the following areas: fire dynamics, fire test standards and codes, fire safety, fire modeling, structural fire safety, life safety, firefighter health and safety, automatic detection and suppression, transportation fire hazards, risk analysis and loss control, fire service applied research, and new trends in fire-related research. Successful completion of the course will require participation in a service learning project.

*Note: Some sections of this course may be taught as Service Learning.*

#### **FER 3110 - Community Risk Reduction for Fire and Emergency Services**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** Students will be introduced to a theoretical framework for understanding the ethical, sociological, organizational, political, and legal components of community risk reduction and a methodology for the development of a comprehensive community risk reduction plan. (Service Learning)

### **FER 3140 - Fire and Emergency Services Administration**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** This course is designed to be a progressive primer for students who want more knowledge about fire and emergency services administration. Students will examine the following skills necessary to manage and lead a fire and emergency services department through the challenges and changes of the 21st century: Persuasion and influence, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems. A central part of the course focuses on how the leadership of a fire and emergency services department develops internal and external cooperation to create a coordinated approach to achieving the department's mission.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3200 - Fire Prevention, Organization, and Management**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** In this course, students will examine the factors that shape fire risk and the tools for fire prevention, including risk reduction education, codes and standards, inspection and plans review, fire investigation, research, master planning, various types of influences, and strategies. Also, students will examine the changing roles and responsibilities of fire prevention professionals in managing fire prevention programs and risk reduction activities to ensure public safety.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3300 - Understanding International Terrorism**

**Credits:** 3

**Description:** This course will enable students to understand the evolution and current state of international terrorism by examining its history on a global scale. This global perspective will provide students with the ability to think sensibly about international terrorism and critically evaluate which counterterrorism methods have proven to be effective. Additionally, this course will investigate the theory behind the international terrorist's motivations and actions.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3330 - Introduction to Homeland Security**

**Credits:** 3

**Description:** This course will enable the student to identify the

important components of homeland security. The student will recognize the agencies associated with homeland security and their inter-related duties and relationships. The student will explore the historical events that have impacted homeland security, the state, national, and international laws affecting homeland security, and the most critical threats, especially terrorism, confronting homeland security.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3430 - Personnel Development for Fire and Emergency Services**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** In this course, students will examine relationships and issues in personnel administration and human resource management within the context of fire and emergency service organizations, including personnel management, organizational development, productivity, recruitment and selection, performance management systems, discipline, and collective bargaining.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3460 - Political and Legal Foundations for Fire Protection**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** In this course, students will examine the legal aspects of the fire service and the political and social impacts of legal issues. The course includes a review of the American legal system and in-depth coverage of legal and political issues involving employment and personnel matters, administrative and operational matters, planning and code enforcement, and legislative and political processes with regard to the fire service. At the end of the course students will be able to understand how fire and emergency services administrators perform as effective risk managers by recognizing legal and political issues affecting public safety, and finding and applying appropriate legal rules and/or political constructs as indicated.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3800 - Fire Service Ethics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, Oral Communication

**Description:** This course examines the basic principles of ethics as related to fire service operations and management with special attention given to current issues in the fire service.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3911 - Cultural Competence for First Responders**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written

Communication and Quantitative Literacy Requirements; FER 3430  
**Description:** Students in this course examine first responder roles in society in relation to social power, class structure, ecological patterns, subcultural developments, and processes of change in the community and in the larger culture. Culture is examined in order to comprehend the interaction between subcultures in the larger society, as well as develop an understanding of cultural competence applications for first responders. Students in this course evaluate the ambivalence in the social processes of first responders, and the challenges inherent in the profession.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 3980 - Internship: Fire and Emergency Response**

**Credits:** 1-6

**Description:** Students in this course gain an internship experience in a fire and/or emergency services management setting where students are able to use the skills learned in the classroom in a supervised, professional realm. Students work as fire and emergency management practitioners in a variety of public and private outlets.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: This course is repeatable up to 6 semester hours.*

### **FER 4100 - Analytical Approaches to Public Fire Protection**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirement for written communication

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** In this course, students apply the tools and techniques of rational decision making in Fire and Emergency Services agencies. Students learn and apply data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost-benefit analysis for fire and emergency services.

### **FER 4160 - EMI National Response and Recovery Frameworks**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, Oral Communication

**Description:** In this class, students will be introduced to the strategies and tactics behind a functioning Emergency Operations Center (EOC). Students will learn about the concept of a unified command, deployment and responses to disasters affecting communities. In addition, they will learn important decision making strategies and skills for proficiency in management of a center and the role of an Emergency Manager.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 4220 - Fire Dynamics**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirement for written communication

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** In this course, students examine the principles of fire and combustion, including the chemistry and physics of fire, ignition, flame spread and smoke movement related to fire compartments. Students apply instruction to fire service, other fire safety practitioners, which includes special hazards, mathematical fire modeling and explosions.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 4260 - Fire Investigation and Analysis**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** In this course, students will analyze the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 4310 - Fire Protection Structures and Systems**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirement for written communication

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** Students examine the underlying principles involved in structural fire protections systems, building furnishings, and fire protection systems, including water-based fire suppression systems, fire alarm and detection systems, special hazard suppression systems, and smoke management systems.

*Note: Some sections of this course may be taught as Service Learning.*

### **FER 4420 - Fire-Related Human Behavior**

**Credits:** 3

**Prerequisite(s):** General Studies English; General Studies Math

**Description:** This course provides students with a fundamental understanding of how humans respond to fire and how this understanding has been integrated into life safety systems design and development. Students will examine current and past research on human behavior, systems models, life safety education, and building design to determine interactions of these areas in emergency situations. Students will develop an understanding of a best practice building life safety system as one that combines knowledge in the areas of psychology and sociology joined with engineering and education to produce the best possible outcomes in terms of human survivability in an emergency. Successful completion of the course will require participation in a service learning project.

*Note: Some sections of this course may be taught as Service Learning.*

## **FER 4510 - Managerial Issues in Hazardous Materials**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirements for Written Communication and Quantitative Literacy

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** In this course, students analyze current issues in management of a department-wide hazardous materials program and explain issues that are pertinent to officers and managers in public safety departments, including regulations and requirements for hazardous materials preparedness, response, storage, transportation, handling and use, and the emergency response to terrorism threat/incident. Other class topics include state, local, and federal emergency response planning, personnel and training, and operational considerations, such as determining strategic goals and tactical objectives.

*Note: Some sections of this course may be taught as Service Learning.*

## **FER 4610 - Disaster Planning and Control**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirement for written communication and quantitative literacy.

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** Students examine concepts and principles of community risk assessment, planning, and response to fires, natural and man-made disasters, including National Institute Management System (NIMS) and Incident Command System (ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery.

*Note: Credit will be granted for only one prefix: FER or HCM. Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HCM 4161

## **French**

### **FRE 1010 - Elementary French I**

**Credits:** 5

**Description:** This course focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Oral Communication

### **FRE 1020 - Elementary French II**

**Credits:** 5

**Prerequisite(s):** FRE 1010 or its equivalent

**Description:** This course is a continuation of FRE 1010 and focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Arts and Humanities, Global Diversity

## **FRE 1800 - International French Year I**

**Credits:** 1-15

**Description:** This is a variable-credit course, designed for first-year students learning French in a study abroad setting. Recognizes approved study-abroad educational experience in French speaking, comprehension, reading, and writing.

### **FRE 2010 - Intermediate French I**

**Credits:** 3

**Prerequisite(s):** FRE 1020 or equivalent

**Description:** This course is the first of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in French and will include a variety of interactive activities designed to help students develop their knowledge of French and their ability to use it productively in situations of communication.

### **FRE 2020 - Intermediate French II**

**Credits:** 3

**Prerequisite(s):** FRE 2010 or equivalent

**Description:** This course is a continuation of FRE 2010 and is the second of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in French and will include a variety of interactive activities designed to help students develop their knowledge of French and their ability to use it productively in situations of communication.

### **FRE 2110 - French Reading and Conversation**

**Credits:** 3

**Prerequisite(s):** One year of college French or equivalent, or Permission of instructor

**Description:** This course helps to build oral proficiency at intermediate and advanced levels through a variety of personalized interactional activities that are based on readings appropriate to each stage of linguistic development.

### **FRE 2800 - International French Year II**

**Credits:** 1-15

**Prerequisite(s):** One year of college French or equivalent

**Description:** This is a variable-credit course that recognizes second-year study of French language and culture in an approved study-abroad setting.

### **FRE 3010 - French as a Global Language**

**Credits:** 3

**Prerequisite(s):** FRE 2010, FRE 2020, or departmental permission

**Description:** This transitional course is designed to develop those critical, linguistic, and analytical skills required to pursue French studies at the advanced level. The cultural sources studied-literary texts, films, news articles, videos, audio programs, etc.- are chosen to acquaint students with Francophone socio-cultural and literary issues.

### **FRE 3050 - Cultural Crossroads: France, Germany, Spain**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** GER 3050, HON 3050, MDL 3050, SPA 3050

### **FRE 3110 - Survey of French Literature I**

**Credits:** 3

**Prerequisite(s):** FRE 3010 or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This introduction to French literature from the Middle Ages to the Enlightenment gives an insight into French literary, historical, and cultural development through selected reading and discussion.

### **FRE 3120 - Survey of French Literature II**

**Credits:** 3

**Prerequisite(s):** FRE 3010 or permission of instructor; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This introduction to 19th- and 20th-century French literature emphasizes the evolution of literary style and content from Romanticism to contemporary literary schools. Readings and discussion are in French.

### **FRE 3150 - French Phonetics: Theory and Practice**

**Credits:** 3

**Prerequisite(s):** Two years of college French or equivalent, or Permission of instructor

**Description:** This course covers the essential facts of French phonology. It is aimed at improving students' pronunciation and articulation and introducing them to the field of linguistics.

### **FRE 3310 - Advanced French Composition and Grammar**

**Credits:** 3

**Prerequisite(s):** FRE 2010, FRE 2020 or equivalent, or Permission of instructor

**Description:** This course is designed to reinforce and further develop writing skills, thus enabling the student to combine accuracy with imagination and inventiveness in writing French.

### **FRE 3320 - Cinema in French for Advanced Conversation**

**Credits:** 3

**Prerequisite(s):** FRE 3010 or Senior Standing or Instructor's Permission

**Description:** This course explores French-language films and provides a vehicle for advanced-level French language comprehension and expression. While students receive an enriched understanding of contemporary French culture, they are encouraged to use advanced structures of the language, as well as other aspects of grammar and idiomatic expressions.

### **FRE 3550 - French Historical Perspectives**

**Credits:** 3

**Prerequisite(s):** FRE 3010 or permission of instructor; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This survey chronologically presents major political, societal, and cultural movements that have molded France and the French throughout history.

### **FRE 3560 - Contemporary Socio-Cultural Issues**

**Credits:** 3

**Prerequisite(s):** FRE 3010 or permission of instructor; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides in-depth presentations and analysis of recent social, cultural, political, and economic issues important to an understanding of contemporary France.

### **FRE 3650 - Introduction to French Translation**

**Credits:** 3

**Prerequisite(s):** FRE 2020 or permission of the instructor

**Description:** This course is an introduction to the principal topics in the discipline of translation. The student translates a variety of texts from French to English and from English to French, discusses and critiques translations in class, examines various theoretical concepts of translation, and analyzes grammatical, lexical and cultural issues faced by translators. The student also identifies fundamental issues specific to various translation domains, develops essential skills for researching terminology, and translates texts from those areas. The student is familiarized with the technical, business and ethical sides of freelance translation.

### **FRE 3800 - International Advanced French**

**Credits:** 1-15

**Prerequisite(s):** At least junior standing in French or equivalent

**Description:** This course recognizes upper-division study in language, culture, and literature in a study abroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in French.

#### **FRE 4520 - Modern French Theater**

**Credits:** 3

**Prerequisite(s):** Three years of college French or equivalent, or Permission of instructor; completion of General Studies requirements; and senior standing.

**Description:** This is a sampling of the French dramatists who have not only contributed to literary development, but who also have had an impact on society and culture. Theater analysis techniques will also be stressed.

**University Requirement(s):** Senior Experience

#### **FRE 4530 - The French Novel**

**Credits:** 3

**Prerequisite(s):** Three years of college French or equivalent, or permission of instructor; completion of General Studies requirements; and senior standing.

**Description:** This is a sampling of 19th- and 20th-century French novels that will be studied in depth using several literary analysis techniques.

**University Requirement(s):** Senior Experience

#### **FRE 4540 - Literature, Culture, and Translation**

**Credits:** 3

**Prerequisite(s):** FRE 3310 and/or Senior standing or permission of instructor

**Description:** This course is designed to allow students to use the various skills that they have developed during their studies of French language, culture and literature at an advanced level. Students analyze and apply translation techniques (from both French to English and English to French) and demonstrate an ability to analyze cultural differences that affect translation, both of text and image. The course provides a practical application of skills toward a service-learning translation project and includes reflection on the service learning process. Enrollment is limited to 15 students.

*Note: Some sections of this course may be taught as Service Learning.*

#### **FRE 4750 - Senior Seminar in French Studies**

**Credits:** 3

**Prerequisite(s):** Senior standing, at least two courses at the FRE 3000-level

**Description:** This is an intense thematic seminar on either a literary or cultural topic emphasizing a comparative study in the former and a multidisciplinary approach to the latter.

### **Gender, Women and Sexualities**

#### **GWS 1001 - Introduction to Gender, Women, and Sexualities Studies**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing and mathematics.

**Prerequisite(s) or Corequisite(s):** Minimum performance standard scores on reading, writing and mathematics.

**Description:** This course provides an introduction to the foundational concepts and theories underlying the interdisciplinary field of Gender, Women, and Sexualities Studies. This course utilizes a variety of educational materials including personal narratives, academic articles, media and cinema studies, and poetry and fiction.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

#### **GWS 1020 - Introduction to Social Justice and Decoloniality**

**Credits:** 3

**Description:** This course introduces students to the interdisciplinary fields of Social Justice and Decolonial Studies through interdisciplinary perspectives, methods, and approaches. Students learn about privilege, power, and oppression and their relationships to race, class, gender, sexuality, and other identities. This course asks complex and difficult questions regarding colonialism, decoloniality, sovereignty, and agency. It offers students opportunities to study social movements, and engage in social justice and decolonial praxis.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** AAS 1020, CHS 1020, NAS 1020

#### **GWS 1200 - Multicultural Study of Sexualities and Genders**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This multidisciplinary course introduces the study of sexualities and genders including the history, major theories, racial intersections, and issues. Foundational concepts and vocabulary are taught so that the student will be equipped to take advanced courses in this area. General models of identity linked with lesbian, gay, bisexual and transgender sexualities are explored. Intersectional analysis will be applied with particular attention to the experiences of sexuality and gender in the Native American/Indigenous, African-American, Chicana/o, and Asian American communities.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

#### **GWS 1550 - Introduction to Transgender Studies**

**Credits:** 3

**Description:** This course explores the transgender experience, focusing on Western cultural definitions and concepts. The course covers transgender basics, including definitions and language; the history of the transgender movement; the legal, social, and medical aspects of transition; current political issues within and for the movement; cultural aspects of gender diversity; well-known trans people in Western culture; working with transgender populations; and being a good ally and advocate. By the end of the course, students possess the language, knowledge, and skills to work with transgender populations in a variety of settings and understand the diversity of the

transgender experience.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **GWS 1600 - Women in World History**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course will explore the role, experiences, and contributions of women in the family, the economy, the culture, the religions and the political structure from a broad, comparative framework. Students will become familiar with how women's history modifies the traditional interpretations of historical events.

*Note: Credit will be granted for only one prefix: HIS or GWS.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1600

### **GWS 2010 - Interdisciplinary Research Methods in Social Issues**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or AAS 1010 or CHS 1000 or Permission of instructor

**Description:** This course focuses on the interdisciplinary study of methods, analyses and critiques used by scholars to study social issues within and across a range of disciplines (e.g., history, arts, humanities, sciences, education, health, economics, law and social/behavioral sciences). Research designs and general statistical interpretation will be reviewed for each methodology. Techniques for laboratory and field research, conducting qualitative and quantitative studies, and writing research reports will also be included.

*Note: Credit will be granted for only one prefix: GWS or AAS or CHS.*

**Cross Listed Course(s):** AAS 2010, CHS 2030

### **GWS 2100 - Women of Color**

**Credits:** 3

**Description:** Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of women's race, class, ethnicity, and sexual orientation are central to this course. The similarities among diverse groups of women are also examined in order to better understand the complexity of women's lives. The course addresses issues of work, health, interpersonal violence, globalization, as well as resistance, activism, and social change across identities.

*Note: Credit will be granted for only one prefix: AAS, CHS, or GWS.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 2100, CHS 2100

### **GWS 2200 - Feminist and Queer Research Methods**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** GWS 1001 or GWS 1200

**Description:** This course focuses on feminist and queer research methods and methodologies specific to interdisciplinary research. It includes an overview of basic quantitative methods and analyses, along with an in-depth exploration of qualitative and mixed-methods research design. The course also covers topics such as: standpoint and critical theories, research ethics, feminist ethnography, and community research. The course provides a queer framework for critiquing power, authority, and knowledge, all of which are essential concepts in feminist and queer research design and analyses.

### **GWS 2400 - Women's Folklore and Folklife**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course provides an exploration of folklore in everyday life, folk narrative, and other verbal genres, cultural forms, and manifestations of traditional expressive behaviors as they pertain to reinforcing and resisting gender norms and practices within diverse cultures. It offers a critical examination of how women creatively use folklore to affirm and subvert their roles within sexist, racist, classist, and heterosexist cultural systems.

*Note: Credit will be granted for one prefix only: ANT or GWS.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** ANT 2400

### **GWS 2770 - Gender and Communication**

**Credits:** 3

**Description:** This course explores the relationship of gender to the communication process examining issues of power, conflict, sex role stereotypes, and cultural patterns of interaction on relationships and identity. Students explore the multiple ways that masculinity and femininity are created and sustained through communication in such contexts as families, schools, the workplace, and the media. Students use feminist theoretical perspectives and interpretive approaches from communication studies to analyze cultural assumptions and the relationships of notions of gender to class, sexuality and race.

*Note: Credit will be granted for only one prefix: COMM or GWS.*

**General Studies:** Arts and Humanities

**Cross Listed Course(s):** COMM 2010

### **GWS 3050 - Psychology of Gender**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course presents a survey of major contemporary approaches to gender, including a range of scientific and theoretical work. A constructionist approach is utilized to synthesize the views. The course then reviews several major areas of application, including relationships, health, violence, workplace, and achievements.

*Note: Credit will be granted for only one prefix: PSY or GWS.*

**Cross Listed Course(s):** PSY 3050

### **GWS 3070 - Psychology of Sexual Orientation**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course explores psychological theory and research dealing with sexual orientation, with an emphasis on lesbian, gay and bisexual (LGB) identity. Topics include historical and theoretical frameworks, homophobia and heterosexism, origins of sexual orientation, LGB identity development and coming out, diversity, relationships and parenting, the role of community, and others.

*Note: Credit will be granted for only one prefix: GWS or PSY.*

**Cross Listed Course(s):** PSY 3070

### **GWS 3130 - Independent Study in Gender, Women, and Sexualities Studies**

**Credits:** 1-6

**Prerequisite(s):** GWS 1001 or permission of instructor

**Description:** This course engages students in an in-depth, faculty-guided conversation on Gender, Women, and Sexualities Studies theories and practices. In collaboration with their GWS faculty mentor, students will develop a comprehensive course proposal, with student learning objectives and detailed course schedule specific to their area of interest. Through the selections read, students will learn the theory, history, and scope of the literature in the field and will develop an extensive research project about their specific topic. This course offers individualized instruction and personal consultation with faculty.

*Note: This course may be repeated for a total of 6 credits.*

### **GWS 3170 - Social Justice, Self, and Citizenship: A Service Learning Course**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSY 1001 and six additional semester hours in Women's Studies or six additional semester hours in Psychology

**Description:** Social justice encompasses research, activism and current events about manifestations of social oppression and social change. This course focuses upon psychological theory and self-identity in the context of multicultural and social justice issues (e.g., classism, racism, sexism, heterosexism, and ableism). Lectures, readings, and discussions are integrated with a required service learning placement involving 30 hours of volunteer work in a setting for the underserved. Students have the opportunity to a) reflect on their values, assumptions, place within, and emotional reactions to social oppressions; b) analyze the political systems that surround their communities and institutions; and c) apply their reflections to their career goals and personal development.

*Note: Credit will be granted for only one prefix: HON, PSY, or GWS. Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3170, PSY 3170

### **GWS 3180 - Feminist Philosophy**

**Credits:** 3

**Prerequisite(s):** PHI 1010 or 1030 and junior standing are recommended

**Description:** This course involves an examination of traditional philosophical topics and questions from the perspective of contemporary feminist theory. Special consideration is given to feminist critiques of logic, rationality and scientific objectivity and to

feminist approaches to ethical, social and political thought.

*Note: Credit will be granted for only one prefix: PHI or GWS.*

**Cross Listed Course(s):** PHI 3180

### **GWS 3220 - Prejudice and Discrimination**

**Credits:** 3

**Prerequisite(s):** SOC 1010, GWS 1001, AAS 1010 or permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy

**Description:** Explore the origins and characteristics of bias, prejudice and discrimination in society; social constructions of race, ethnicity, and gender; and the impact of social forces on social structure, institutions, and access to life opportunities.

*Note: Credit will be granted for only one prefix: AAS, SOC or GWS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3220, SOC 3220

### **GWS 3230 - Bodies and Embodiment**

**Credits:** 3

**Description:** Students in this course examine multiple interdisciplinary discourses about gendered, sexed, raced, classed, and able bodies, beginning with Simone de Beauvoir's *The Second Sex*. Through discussion, lecture and critical evaluation of key theories in Body and Embodiment Studies (by Michel Foucault, Judith Butler, Susan Bordo, bell hooks, and Iris M. Young) students in this course explore the inscribed, as well as the lived, body--bodies that are gazed at, desired, fashioned, heard, and eroticized. In order to historically situate these discourses, the body is presented as a social construct that is controlled and manipulated but that also has unique experiences which cannot be verbalized and/or managed.

*Note: Credit will be granted for only one prefix: ITP, SOC, or GWS.*

**Cross Listed Course(s):** ITP 3230, SOC 3230

### **GWS 3240 - American Indian Women**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or NAS 1000 Recommended

**Description:** This course is designed to expose the student to the diverse and varied works of American Indian women. By studying the literature, music, and dance of the American Indian woman, students explore the historical factors that have impacted the lives of both American Indians and non-native people. This course also examines the transition that American Indian women have made in order to survive and attempt to understand their struggles for freedom.

*Note: Credit will be granted for only one prefix: NAS or GWS.*

**Cross Listed Course(s):** NAS 3240

### **GWS 3250 - Black Women Writers**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** The course studies selected works chosen as representative of the issues and concerns of Black women worldwide as voiced by Black women writers from Africa and the Diaspora.

*Note: Credit will be granted for only one prefix: AAS, ENG, GWS, or HON.*

**Cross Listed Course(s):** AAS 3250, ENG 3250, HON 3250

### **GWS 3260 - Gender, Social Justice and the Personal Narrative**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** This course explores personal narrative as a vehicle for discovery and dissemination of social justice themes as they connect to the lived experiences of the authors. Students take part both as readers and authors, narrating excerpts from their own lives as they relate to social justice themes.

**University Requirement(s):** Arts and Humanities

### **GWS 3270 - Beauty Cultures**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** This course explores contemporary and historical beauty cultures (both in the U.S. and in a global context), their critiques, and their impact on the lived experience of individuals, including students enrolled in the course. Students discern and untangle the interplay between individual aesthetic impulses and larger cultural and structural forces as they pertain to the beautification of the human face and body.

**University Requirement(s):** Arts and Humanities, Global Diversity

### **GWS 3280 - Queer Theory**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or GWS 1200

**Description:** This course surveys a broad array of scholarship in queer theory, as well as applications of queer theory in a variety of academic fields to explore practices, identities, and communities as well as the cultural construction of gender and sexuality.

*Note: Credit will be granted for only one prefix: SOC or GWS.*

**Cross Listed Course(s):** SOC 3280

### **GWS 3300 - Women's Leadership**

**Credits:** 2

**Description:** This course will examine the various roles, models, and guiding principles of women in leadership. The discussions will be intentionally interactive as students share their own experience of women's leadership ranging from traditional to unconventional. Students will identify the values most clearly associated with women's leadership crossculturally and read diverse women's experiences in their communities. Each student will interview a woman whom they deem to be in a leadership role, though not necessarily a formal position, and will present his or her findings to the class. All class members will reflect on their own leadership values in relation to the course material.

*Note: Credit will be granted under one prefix only: CPD or GWS.*

**Cross Listed Course(s):** CPD 3300

### **GWS 3310 - Women and the Law**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or Permission of instructor

**Description:** This course introduces students to basic concepts that define the relationship of women to the law. Students will learn about the historical conditions and legal perspectives that affect women's rights in the U.S. This course deals specifically with women's equal participation in citizenship, work, education, reproductive rights, and protection from violence.

*Note: Credit will be granted for only one prefix: CJC, PSC, SOC, and GWS.*

**Cross Listed Course(s):** CJC 3710, PSC 309J, SOC 365B

### **GWS 3350 - Gender and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or GWS 1001; or Permission of instructor

**Description:** Explore what it means to live gendered lives in a gender-conscious society in which cultural, political and economic forces intersect with race, ethnicity, class, age, sexuality and other social positions to affect the self, our opportunities and our life chances.

*Note: Credit will be granted for only one prefix: SOC or GWS.*

**Cross Listed Course(s):** SOC 3430

### **GWS 3360 - Women in European History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course provides an historical analysis of the role and contribution made by women in the development of Western civilization from Neolithic times to the present.

*Note: Credit will be granted for only one prefix: GWS or HIS.*

**Cross Listed Course(s):** HIS 3360

### **GWS 3365 - Structural Violence, Poverty and Human Rights**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** In this course, students apply a structural violence framework to make visible the power inequalities that result in producing and reproducing injustices and violations of socioeconomic rights. The use of ethnographic case studies allows students to explore a human rights-based approach to collective actions for justice. Through group discussion, analysis, and workshops, student learn to take political responsibility for injustices beyond those we individually witness or experience.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ANT 3365, PSC 3365

### **GWS 3395 - Transnational Genders and Sexualities**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or GWS 1200 or ANT 1310 or ANT

2500 or ENG 1020 or ENG 1021

**Description:** This course explores the transnational production of gender and sexualities. It examines how people, ideas and capital moving across borders play a role in the development of gender and sexual identities, practices, and communities. Through this focus, the course engages transnational phenomena such as tourism, migration, global LGBT communities, colonization and human rights.

*Note: Credit will be granted for only one prefix: ANT or GWS*

**General Studies:** Social and Behavioral Sciences, Global Diversity  
**Cross Listed Course(s):** ANT 3395

### **GWS 3430 - LGBT Literature**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or GWS 1200

**Description:** Students read, analyze, and write about various forms of literature produced by and about the LBGT experience with consideration of historical and social contexts. Course content includes important LBGT writers in a variety of literary periods and cultures, critical readings on LGBT history and pertinent theory, and explore how historical contingencies and political debates inform literature, as well as how literature and culture inform and challenge public and political opinion.

*Note: Credit will be granted for only one prefix: ENG or GWS.*

**Cross Listed Course(s):** ENG 3360

### **GWS 3460 - Women and the Social Sciences: Variable Topics**

**Credits:** 3

**Prerequisite(s):** GWS 1001, SOC 1010, or permission of instructor; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** These courses focus on women in relation to the social sciences under such titles as: Women and the Family; Women and Addictions; Women in the Criminal Justice System; Domestic Violence; Cross-Cultural Roles of Women; Women and Politics. Check Class Schedule for each semester's offerings.

*Note: This course may be repeated once for credit under different topics.*

### **GWS 3470 - Biology of Women**

**Credits:** 3

**Prerequisite(s):** BIO 1000 or GWS 1001 or Permission of instructor

**Description:** An examination of the anatomy and physiology of sex in humans, the mechanisms involved in formation of sex and gender, and the interactions between science, society, and medical practice with regard to issues of sex and gender.

*Note: Credit will be granted for only one prefix: BIO or GWS.*

**Cross Listed Course(s):** BIO 3471

### **GWS 3490 - Queer Sexualities and Identity**

**Credits:** 3

**Prerequisite(s):** ENG 1020, SOC 1010, or GWS 1200; or permission of instructor

**Description:** This course explores the various ways lesbian, gay, bisexual, transgender, queer, intersex, asexual, and other sex/gender

minorities represent themselves vis-a-vis the social construction of identity. The course analyzes the general strategies lesbian, gay, bisexual, transgender, queer, intersex, and asexual (LGBTQIA) individuals (and their communities) utilize to self-identify, as well as resist simplistic notions of self in a post-modern context. We explore issues of queer self-presentation and performance in relation to the intersections between queer identity and race/ethnicity, class, and nationality, as well as social control and power and privilege.

*Note: Credit will be granted under one prefix only: GWS or SOC.*

**Cross Listed Course(s):** SOC 3490

### **GWS 3500 - Social Work Practice with LGBTQ People**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course explores concepts and methods useful in assessing and addressing the strengths, developmental needs, and social issues pertinent to lesbian, gay, bisexual, transgender, queer (LGBTQ) as well as other sexual minority identities. Multiple levels of practice issues are explored, including individual, group, family, policy, and community. Concepts of oppression and privilege are explored as they relate to LGBTQ people's experiences as well as experiences within LGBTQ communities.

*Note: Credit will be granted for only one prefix: GWS or SWK.*

**Cross Listed Course(s):** SWK 3500

### **GWS 3510 - Feminist Theories and Practices**

**Credits:** 3

**Prerequisite(s):** GWS 1001, GWS 2100, and 6 additional hours of upper-division, GWS coursework; or permission of instructor

**Description:** This course examines some of the key areas of inquiry in contemporary feminist theories and practices. Specifically, we reflect on feminist histories and question the notions of being, knowing, desiring and moving as sexed, gendered, raced, and classed beings. The course investigates the transformative contributions of liberal feminism, radical feminism, postcolonial and decolonial feminisms, queer theory and transnational feminisms to all academic disciplines. We identify how feminist theories and practices illuminate some of the pressing issues of our time, such as neocolonialism, environmental degradation, war, poverty and violence.

### **GWS 3530 - Gender and Global Politics**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020

**Description:** This course introduces students to the application of feminist theorizing of international relations to critical global issues. The first part of the course examines feminist international relations theory to ascertain how gender informs global politics. The second part of the course examines a variety of global issues, such as war, global economic relations, human trafficking, and the environment, to see how the ways we understand, and therefore construct policies to deal with these issues, are gendered.

*Note: Credit will be granted for only one prefix: GWS or PSC.*

**Cross Listed Course(s):** PSC 3530

### **GWS 3540 - Women in the Developing World**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020 or ANT 1310

**Description:** This course presents a cross-cultural study of women's lives in the developing world by examining two main issues: the influence of culture on women's issues and politics' impact on women. By the end of this course students will not only learn about the lives of women in the developing world but also become familiar with how women across the globe articulate the desire for equality.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ANT 3540, HON 3540, PSC 3540

### **GWS 3550 - Chicana Feminisms**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or GWS 1001; or permission of instructor

**Description:** This course will provide students with a general background on Chicana feminist thought. Chicana feminism has carved out a discursive space for Chicanas and other women of color, a space where they can articulate their experiences at the intersection of race, class, gender, and sexuality, among other considerations. In the process, Chicana feminists have critically challenged Chicano nationalist discourse as well as European and North American feminism. The course will address the diversity in thinking and methodology that defines these discourses thus acknowledging the existence of a variety of feminisms that occur within Chicana intellectual thought. The course will also explore the diversity of realms in which this feminist thinking is applied: labor, education, cultural production (literature, art, performance, etc.), sexuality, and spirituality, among others.

*Note: Credit will be granted for only one prefix: CHS, GWS, or HON.*

**Cross Listed Course(s):** CHS 3460, HON 3460

### **GWS 3560 - Sociology of Sexuality**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** This course is a survey of historical, cultural, and social aspects of human sexuality. The interplay between sex and society will be the major focus. Cross-cultural and historical analysis of sexual values and behavior will be examined. Competing and conflicting sexual value systems in contemporary societies will be analyzed. Other topics include: sexual scripts, sexual deviance and social control, sexual socialization processes, and the social bases of sexual dysfunction.

*Note: Credit will be granted for only one prefix: GWS or SOC.*

**Cross Listed Course(s):** SOC 3460

### **GWS 3600 - Gender in Social Work Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course examines social work practice from a feminist theoretical perspective. It examines issues of equality, social

justice, policy and practice within a patriarchal society. This course examines how gender is produced and reproduced in contemporary society, and how gender matters for social work practice. Multiple levels of practice issues are explored, including individual, group, family, policy, and community. Concepts of oppression and privilege are explored as they relate to people's gendered experiences.

*Note: Credit will be granted for only one prefix: GWS or SWK.*

**Cross Listed Course(s):** SWK 3600

### **GWS 3650 - Economics of Race and Gender**

**Credits:** 3

**Prerequisite(s):** ECO 1040 or ECO 2010 or ECO 2020; or permission of instructor

**Description:** This course applies the tools of economic analysis to issues that relate to African Americans, Hispanic Americans, and women. The course analyzes labor markets and how occupational choices and earnings vary systematically by these groups of color and by gender. The course also examines in detail the intended and unintended consequences of several policies that have addressed this situation. Finally, economic tools are applied to non-labor market behavior and are used to examine other outcomes that vary by race, ethnicity and gender.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ECO 3600

### **GWS 3651 - U.S. Women's History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course emphasizes women's changing roles in American history. Students examine women's status, image and legal rights and how they evolved due to social and economic changes and as a result of activism of reformers and writers. Students study the nuances and differences between and among American women, assessing the intersectional relationship between gender, race, class, and sexuality. The course stresses both the changes and the continuities over the last 300 years.

*Note: Credit will be granted for only one prefix: GWS or HIS.*

**Cross Listed Course(s):** HIS 3650

### **GWS 3655 - Women of the American West**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course will provide students with an overview of the ways in which women of many cultures shaped the North American West. Women developed the West as a home place, borderland, and frontier. Course themes that will be explored in lectures, discussion, and assignments include gender, masculinity, class, race, ethnicity, sexuality, labor, and environment.

*Note: Credit will be granted for only one prefix: GWS or HIS.*

**Cross Listed Course(s):** HIS 3655

## **GWS 3660 - Poverty, Race and Gender**

**Credits:** 3

**Prerequisite(s):** SWK 1010 or permission of instructor

**Description:** This course introduces the student to the relationship between race, gender and poverty and examines the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors are explored in detail. The differences between prevailing stereotypes and current realities are highlighted.

*Note: Credit will be granted for only one prefix: CHS, GWS, SOC, or SWK.*

**Cross Listed Course(s):** CHS 3660, SOC 3660, SWK 3660

## **GWS 3670 - Contemporary Issues in Women's Studies: Variable Topics**

**Credits:** 1-3

**Prerequisite(s):** GWS 1001 or Permission of instructor

**Description:** Objectives vary with course title, but generally focus on current issues that are constantly changing and developing in this area. Check Class Schedule for each semester's offerings.

*Note: This course may be repeated once for credit under different topics.*

## **GWS 3700 - Psychology of Group Prejudice**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or AAS 1010 or GWS 1001

**Description:** This course covers psychological theory and research that examines causes, effects, expressions, and reduction of group prejudice. Various types of group prejudice are addressed, most notably prejudice against cultural and ethnic minorities in the United States (i.e., Native Americans, African Americans, Hispanic Americans, and Asian Americans). Sexism and heterosexism also are discussed.

*Note: Credit will be granted for only one prefix: AAS, GWS, or PSY.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3700, PSY 3700

## **GWS 3780 - Gender and Disaster**

**Credits:** 3

**Description:** This course analyzes gender's shaping global development and disaster vulnerability by focusing on the experiences of girls and women before, during, and after disastrous events. It examines intersecting patterns of vulnerability and response based on gender, class, race/ethnicity, age, nationality and other factors. Students examine gender-focused case studies from developed and developing societies and investigate the practical implications of gender-sensitive sociology of disaster.

*Note: Credit will be granted for only one prefix: ANT, GWS, or SOC*

**Cross Listed Course(s):** ANT 3361, SOC 3780

## **GWS 3910 - Women's Spirituality**

**Credits:** 3

**Prerequisite(s):** GWS 1001 Recommended

**Description:** This course explores the spiritual, psychological, social, political, and cultural aspects of the women's spirituality movement through reading, research, critical reflection, writing, and optional creative /experiential projects. Students engage these concepts and theories in relation to women's experiences within diverse religious traditions, as well as personal spiritual understanding and practices. In addition, students apply a spiritual feminist critique to gender socialization, body image, cultural constructions of power and subordination, social activism, and personal agency.

## **GWS 3920 - Gender Politics of Health**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or SOC 1010 or PSY 1001

**Description:** This course focuses on health issues specific to women and the challenges historically faced by women in the health care arena. Students will learn about the role of patriarchal medical mythologies that exist throughout various cultures in the oppression of women, especially minority women, and how women have reclaimed healing, health, and communities of medical knowledge production. This course specifically explores feminist, physiological, psychological, and sociological factors in women's health within a global context.

*Note: Credit will be granted for only one prefix: PSY, SOC, GWS, or ITP*

**Cross Listed Course(s):** PSY 3920, SOC 3920, ITP 3920

## **GWS 3930 - Theories of Love and Sex**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or permission of instructor

**Description:** This course synthesizes interdisciplinary theories about love and sex. It explores the complexities of love and sex, including their fundamental meanings, contemporary understandings, identity implications as well as their historical constructions. An important dimension of this exploration is the source and meaning of the moral valuation assigned various forms of sexual activity.

**General Studies:** Social and Behavioral Sciences, Global Diversity

## **GWS 3940 - Victim Advocacy for Survivors of Interpersonal Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 and six additional hours in Gender, Women, and Sexualities Studies or HSP 1010 and six additional hours in Human Services

**Description:** This course provides a foundation to the field of interpersonal violence victim advocacy to complement trainings provided by local victim advocacy agencies and police departments. The primary focus is victim advocacy as it relates to interpersonal violence (i.e., relationship violence, sexual violence, and stalking). This course helps prepare students to engage in advocacy by providing a broad understanding of the role of power and control in violence and its root causes, the historical perspective on anti-violence movements, the impact of trauma and biopsychosocial considerations, intersectional identities and vulnerability, laws and policies surrounding interpersonal violence, methods of justice and healing, community activism, and resources available to survivors.

*Note: Credit will be granted for only one prefix: GWS or HSP.*

**Cross Listed Course(s):** HSP 3940

### **GWS 3960 - Feminist Art Since 1960**

**Credits:** 3

**Prerequisite(s):** ARTH 2080 or GWS 1001 with "C-" or better; Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; or permission of department

**Description:** This course examines the various intersections between art and feminism beginning with the rise of second-wave feminist politics and continuing to the present. Work by artists who self-consciously identified as feminist or work that has been meaningfully read through feminist theories is the focus. The course covers competing and diverse definitions of feminism and analyzes the ways race, class and gender are intertwined and represented by artists globally. Students evaluate art's relationship to changing social, political, and philosophical conditions throughout the period.

*Note: Credit will only be granted for one prefix: ARTH or GWS.*

**Cross Listed Course(s):** ARTH 3385

### **GWS 4100 - Women's Holistic Health**

**Credits:** 3

**Description:** This course takes an in-depth, holistic approach to women's health. While highlighting new research findings, the class will explore the optimal integration of conventional medicine and complementary modalities for common women's health concerns. Students will deepen their awareness of tools women can utilize to maintain health and prevent illness.

*Note: Credit will be granted for only one prefix: GWS or ITP.*

**Cross Listed Course(s):** ITP 4100

### **GWS 4160 - Human Trafficking**

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 4160, CJC 4160, HON 4160, HSP 4160, SWK 4160

### **GWS 4210 - Chicanas and the Politics of Gender**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or GWS 1001, CHS 3460

**Description:** This course is designed to further the theoretical

understandings of Chicana Feminisms. The course spends a considerable amount of time dealing with the construction of gender in Chicana/o and Latina/o communities, and how the construction of gender has impacted the daily, lived experiences of not only Chicanas and Latinas, but also of gay, lesbian, transgendered, and queer identified Chicanas/os and Latinas/os. The course examines the social construction of gender within Chicana/o and Latina/o communities through cultural texts such as academic production, art, film, popular culture, and spirituality.

*Note: Credit will be granted for only one prefix: CHS or GWS.*

**Cross Listed Course(s):** CHS 4210

### **GWS 4230 - The Female Offender**

**Credits:** 3

**Description:** This course examines the nature and causes of female criminality and the responses to female offending by all areas of the criminal justice system e.g. policing, courts and prisons. It blends an in-depth analysis of historical methods of addressing female criminality with an intersectional approach to finding solutions to modern-day problems that can influence criminality among girls and women such as intimate partner violence, poverty, mental illness, and the feminization of work. Topics will include gender norms, girl fights, women who kill, prostitution, human trafficking, women's prisons and women on death row. The course will also address methods for correcting and preventing female criminality from an intersectional approach.

*Note: Credit will be granted for only one prefix: CJC or GWS.*

**Cross Listed Course(s):** CJC 4230

### **GWS 4240 - Women and Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or PSC 1020 or SOC 1010 or permission of instructor

**Description:** Students analyze key patterns and trends in violence perpetrated by and against women, with special focus on the diverse experiences of women in the United States. Students will investigate historical, contemporary, sociopolitical, and cross-cultural patterns in causal factors, perpetuation, prevention, intervention and treatment relative to violence and women. Topics will include sexual violence, domestic violence, family violence, cyber-violence, women in prison, women on death row, and women as victims of violence, among others.

*Note: Credit will be granted for only one prefix: CJC, GWS, PSC, or SOC.*

**Cross Listed Course(s):** CJC 4240, PSC 4240, SOC 4240

### **GWS 4750 - Feminist Research and Activism**

**Credits:** 3

**Prerequisite(s):** GWS 2200, GWS 3510, completion of General Studies requirements, and senior standing; or permission of instructor.

**Description:** Designed primarily for Gender, Women, and Sexualities Studies majors and minors, this seminar serves as the program capstone. The seminar focuses on interdisciplinary research writing and activism that students apply to a senior thesis and presentation. Thesis papers should reflect each student's particular

focus area within the program (e.g., Transnational and Cultural Diversity, Social Justice and Activism, Bodies and Sexualities, and Interdisciplinary) and represent the broader context of gender, women, and sexualities studies and feminist theory and praxis.

**University Requirement(s):** Senior Experience

### **GWS 4830 - Workforce Diversity**

**Credits:** 3

**Prerequisite(s):** Senior Standing

**Description:** This course provides an integrated perspective on the management practices and systems that influence the development and contributions of individuals within a culturally diverse workforce. The focus is on those practices that enhance an organization's effectiveness in the increasingly competitive domestic and global marketplace.

*Note: Credit will be granted for only one prefix: GWS, HON, or MGT.*

**University Requirement(s):** Multicultural, Senior Experience

**Cross Listed Course(s):** HON 4830, MGT 4830

### **GWS 4920 - Gender, Women, and Sexualities Studies Internship**

**Credits:** 1-12

**Prerequisite(s):** GWS 1001 and permission of instructor

**Description:** This course provides an internship experience in community-based, non-profit, government, or corporate agencies that serve gender and sexual minorities, and/or underserved populations. The internship allows the student to integrate and apply gender and social justice theories to their work with community organizations, under joint supervision of the placement supervisor and gender, women, and sexualities studies professor.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### **GWS 4970 - Undergraduate Teaching Assistant Training**

**Credits:** 3

**Prerequisite(s):** GWS 1001, GWS 1200, or GWS 2100 and GWS course for which the student will serve as TA with a grade of B or better

**Description:** This course provides students with an intensive experience as an undergraduate teaching assistant in courses offered through Gender, Women, and Sexualities Studies (GWS) either on campus or online. Under close faculty supervision, this course provides training and support for students to learn about feminist pedagogy and processes involved in teaching gender, women, and sexualities studies courses. Students utilize what they have learned in previous GWS courses to assist other students enrolled in these classes. The experience includes workshop attendance with additional hours of application in the course. Students need to have already taken the course for which they will be serving as a Teacher Assistant.

*Note: Students may take the course for a maximum of six credit hours*

## **Geographic Information Systems**

### **GIS 1220 - Digital Earth: Geospatial Technologies**

**Credits:** 4

**Description:** This course serves as an introduction to technologies used for visualization, measurement, and analysis of geographical features that occur on earth. Students learn basic concepts needed to understand maps, global positioning system (GPS), geographic information science (GIS) and remote sensing of the environment. Topics include the nature and characteristics of geospatial technologies, concepts of spatial data, principles and methods of capturing and representing spatial data, and methods of analysis and interpretation of maps and visualizations. This course addresses basic analysis and spatial problem-solving skills. Intermediate spatial analysis skills are taken up in subsequent GIS courses.

*Note: Students may not receive credit for GEG 1220 and GIS 1220.*

**General Studies:** Natural and Physical Sciences

### **GIS 2250 - Geographic Information Systems**

**Credits:** 4

**Prerequisite(s):** Quantitative Literacy General Studies requirement should be completed before taking this class.

**Description:** This is a foundation course that provides students with the basic knowledge of Geographic Information Systems (GIS) with regard to theoretical, technical, and application issues. It introduces and provides direct experience with the techniques used to analyze and display spatial data using GIS. The skills and knowledge developed in this course will be used to support upper-division courses.

### **GIS 2710 - Global Positioning Systems**

**Credits:** 2

**Prerequisite(s):** GIS 1220 with a grade of "C-" or better

**Description:** This course is an introduction to the science of land navigation using maps and a Global Positioning System (GPS). Students navigate positions in the field and apply cartographic principles to GPS lab and field exercises. Emphasis is given to the integration of GPS data with Geographic Information Systems (GIS).

### **GIS 3250 - Cartography**

**Credits:** 3

**Prerequisite(s):** GIS 2250 and MTH 1210 with grades of "C-" or better; or permission of instructor

**Description:** This course focuses on basic cartographic and visualization concepts and techniques to convey spatial information. Students will critique and design basic cartographic products such as dot, choropleth, contour, and proportional symbol maps using Geographic Information Systems (GIS). They will explore advanced visualization techniques such as integrating data, text, and graphics, developing web maps, and animating maps to show temporal change. Cartographic applications for natural resource management and planning are stressed.

### **GIS 3410 - Web Mapping**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** GIS 2250

**Description:** This course is an introduction to creating web mapping applications on the Internet and serves as an introduction to Spatial Data Infrastructures. Students design, develop, and implement web mapping applications using ESRI software and open source software. Students work with web authoring tools, learn basic javascript, and work with basic visualization tools. Lectures focus on the theories and principles behind web mapping, distributed and cloud computing, graphic design, and other principles of web-based cartography.

### **GIS 3920 - Directed Study in Geospatial Sciences**

**Credits:** 1-6

**Prerequisite(s):** GIS 3250 and Instructor Approval

**Description:** This course provides an opportunity for upper-division students to independently study a specific topic, initiate their own research or creative project, or assist with a research project initiated by a faculty member in the Geospatial Sciences. Proposals including expected milestones and deliverables will be developed in cooperation with a faculty advisor. The course requires permission of the instructor to enroll.

*Note: This course may be repeated for up to 6 semester hours toward the degree.*

### **GIS 4810 - GIS Programming**

**Credits:** 3

**Prerequisite(s):** GIS 2250 with a grade of "C-" or better

**Description:** This course is an introduction to programming and scripting for intermediate Geographic Information Systems (GIS) users. The fundamental concepts of scripting and object-oriented programming will be developed using the Python programming language. This course teaches students to design and write clearly structured programs in Python in the ArcGIS environment. Students will develop programs to manage geospatial data, perform geoprocessing analysis to solve spatial problems, and automate mapping and visualization tasks.

### **GIS 4840 - Remote Sensing**

**Credits:** 3

**Prerequisite(s):** GIS 2250 with a grade of "C-" or better and (MTH 1110 or MTH 1112 or MTH 1120 or MTH 1400 or MTH 1410) with a grade of "C-" or better

**Description:** This course provides an overview of photogrammetry and remote sensing principals as well as practical experience in the extraction of earth surface information from hardcopy and digital imagery. Topics include electromagnetic radiation principles, aerial cameras, photo interpretation and measurement, satellite collection systems, digital imagery characteristics, and image processing. The application of remote sensing technologies to land management fields and the integration of digital imagery within Geographic Information Systems (GIS) is emphasized.

### **GIS 4850 - Spatial Modeling in Raster**

**Credits:** 4

**Prerequisite(s):** GIS 2250 with grade of "C-" or better and (MTH 1110 or MTH 1112 or MTH 1120 or MTH 1210 or MTH 1400 or MTH 1410) with grade of "C-" or better or permission of instructor

**Description:** This is an upper-division course in Geographic Information Systems (GIS) with an emphasis on spatial analysis and modeling. The underlying foundations of map algebra are discussed along with practical exercises that allow the student to develop familiarity with those procedures. This course offers an opportunity for students with a solid background in the fundamentals of GIS to apply the analytical capabilities of this technology to model real-world situations in support of decision-making. Application of GIS to the fields of Land Use Planning and Natural Resource Management are emphasized.

### **GIS 4860 - GIS Applications**

**Credits:** 4

**Prerequisite(s):** GIS 2250 with a grade of "C-" or better, upper division standing; or permission of instructor

**Prerequisite(s) or Corequisite(s):** GIS 3250

**Description:** This course provides advanced theoretical and practical knowledge in Geographic Information Systems (GIS), with emphasis on vector data models. Students will gain conceptual knowledge about the advantages and limitations of various vector GIS data models (shapefiles, coverages, geodatabases) in support of land management and scientific applications, as well as practical exercises using Arc/Info and ArcGIS software. Students will gain advanced experience in spatial data management, spatial analysis, and project management. Students will be responsible for a GIS application project of their own creation.

### **GIS 4870 - Spatial Databases**

**Credits:** 3

**Prerequisite(s):** GIS 4860 with a grade of "C-" or better, and upper division standing; or permission of instructor

**Description:** This upper-division course emphasizes the challenges and uniqueness of spatial data organization from specific database models to national spatial data infrastructures. Students will gain theoretical and practical experience designing, implementing, and managing georelational and object-relational databases for planning and natural resource applications. Practical experience in spatial database creation using Global Positioning Systems (GPS), Database Management Systems (DBMS) and Geographic Information Systems (GIS) will be stressed.

### **GIS 4880 - Current Topics in GIS: Variable Topics**

**Credits:** 1-3

**Prerequisite(s):** GIS 2250 with a grade of "C" or better

**Description:** This course covers important topics in GIS and remote sensing, emphasizing new concepts and technological developments. The course content will vary, and the course may be repeated for credit as the course topic changes with a maximum of six credits earned.

### **GIS 4890 - Advanced GIS Project**

**Credits:** 3

**Prerequisite(s):** GIS 4860 with a grade of "C" or better, or permission of instructor

**Description:** This is a senior-level capstone course for land use majors with a concentration in Geographic Information Systems (GIS). Students serve as GIS specialists working on individual or group projects with emphasis on land use applications. Students manage a project from inception to completion, including databases and maps, as well as a final report and presentation.

**University Requirement(s):** Senior Experience

### **GIS 4910 - Satellite Image Processing and Analysis**

**Credits:** 3

**Prerequisite(s):** GIS 4840 with grades of "C-" or better and senior standing, or permission of instructor; GIS 4860 or GIS 4850 with grade of "C-" or better.

**Description:** This course focuses on current techniques and concepts for processing and analysis of digital satellite remote sensing imagery. The class covers both theoretical and practical applications of image processing techniques for land cover classification and land condition analysis. Topics include image preprocessing, enhancements, indices, and classification. Students conduct an original research project in addition to reviews of current literature.

**University Requirement(s):** Senior Experience

### **GIS 4920 - Advanced Directed Study in Geospatial Sciences**

**Credits:** 3

**Prerequisite(s):** GIS 4860 with a grade of "C-" or better, senior standing, and permission of instructor

**Description:** This course provides an opportunity for students with senior standing to create, initiate, manage, and analyze data for a unique undergraduate research project in Geospatial Sciences, with guidance from a faculty advisor. A review of scientific literature relevant to the research topic is required, along with a research proposal outlining objectives, methods, and deliverables. A written scientific report is also required at the conclusion of the project. Students must obtain permission from the instructor in order to enroll in this Senior Experience course.

**University Requirement(s):** Senior Experience

### **GIS 4950 - Internship in GIS**

**Credits:** 1-12

**Prerequisite(s):** Departmental or Instructor permission

**Description:** This course provides an on-the-job internship experience with a Geographic Information Science-related company or agency. The experience must be done under qualified supervision and under the direction of an Earth and Atmospheric Sciences faculty member.

*Note: Students may not receive more than 12 hours of credit for this course.*

## **Geography**

### **GEG 1000 - World Regional Geography**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

**Description:** This course presents the study of the formation, behavior, and interaction of social, political, cultural, and economic regions throughout the world.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS2

### **GEG 1100 - Introduction to Physical Geography**

**Credits:** 3

**Description:** This course explores the various elements of the physical environment and interactions between the elements. The course emphasizes the atmosphere (weather and climate), the lithosphere (soils, geology, and landforms), and the hydrosphere (oceans, streams, and groundwater).

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **GEG 1120 - Orienteering**

**Credits:** 1

**Description:** This course familiarizes students with the reading and interpretation of topographic maps and the use of the compass. Orienteering exercises are conducted in the field.

### **GEG 1300 - Introduction to Human Geography**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

**Description:** This course provides an introduction to geographic perspectives, concepts, and methods as they apply to the study of human activities. Emphasis is placed on explaining human spatial patterns and their consequences. Topics covered include population, migration, language, religion, folk and economic development, political systems, and resources.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS2

### **GEG 1610 - Introduction to Planning**

**Credits:** 1

**Description:** This course provides an overview of the role of planning in land use, different types of planning processes, public and private sector actors, skills required of planners, and planning documents and maps.

### **GEG 1700 - Principles of Sustainability**

**Credits:** 3

**Description:** This course is an introduction to the transdisciplinary field of sustainability that examines current debates about how to respond to the problems of climate change, environmental degradation, and social inequalities from the local to the global scales. The course begins with an overview of the historical conditions that continue to shape the current human imprint on the

global environment. It also explores how different perspectives from the natural and social sciences can be used to examine the environmental implications of human endeavors. Throughout the course, emergent sustainable practices, such as renewable energy, sustainable agriculture and food systems, and urban sustainability, are discussed to show how communities across the world are finding sustainable and equitable solutions.

**Guaranteed Transfer:** GT-SS2

**University Requirement(s):** Social and Behavioral Sciences

### **GEG 1910 - Global Water Concerns**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing placement tests

**Description:** In this course, water is examined as a natural and societal resource using local, national, and international examples. Landforms and processes related to water such as the hydrologic cycle, watersheds, surface water, and groundwater are surveyed. Students learn about water use in early civilizations, water and culture, water quality and treatment, and water law. The critical issue of water conservation and scarcity is reviewed in the context of the social, legal, political, economic, and physical infrastructure that controls water around the world.

**General Studies:** Natural and Physical Sciences, Global Diversity

**Guaranteed Transfer:** GT-SC2

### **GEG 2020 - Geography of Colorado**

**Credits:** 3

**Description:** Geography of Colorado presents the study of the physical, economic, and cultural features of Colorado. These features include climate, landforms, history, water resources, energy and minerals, mining, soil, natural vegetation, agriculture, population characteristics, the economy, current issues, as well as their interactions, and the overall geographic setting.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS2

### **GEG 2200 - Geography of the United States**

**Credits:** 3

**Prerequisite(s):** Six hours of earth science courses

**Description:** This course is a survey of the geography of the U.S., including an overview of the physical characteristics, landforms, climate, soil, vegetation, and natural resources. Regions of the U.S. are studied, including the distribution of population, agriculture, industry, transportation, and culture. Geographic problems and issues are raised.

### **GEG 2300 - Geographic Analysis of Social Issues**

**Credits:** 3

**Prerequisite(s):** GEG 1300

**Description:** This course is a geographic analysis of current social issues. Topics include urban spatial problems such as crowding and crime, drugs and gangs, population growth, environmental perception, resource use, and culturally based land-use patterns. The

administration of space, boundaries, territoriality, and spatial learning are discussed.

### **GEG 2700 - Geographies of Environmental Justice**

**Credits:** 3

**Description:** This class explores why people of color and lower income populations are subject to the disproportionate burden of pollution and contamination and analyzes collective struggles of affected people to democratize access to a clean environment. Environmental justice is at the intersection of social justice and environmentalism and helps us to better understand geographies of socio-environmental injustices and how people take actions to make the places where they live, work, and play safer. Students learn how issues such as air pollution, waste management, unsafe drinking water, working conditions on farms, food deserts, climate change, and other environmental hazards affect people living in low income communities across the United States.

*Note: Credit will be granted for only one prefix, GEG or NAS.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS2

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 2700

### **GEG 3000 - Historical Geography of the U.S.**

**Credits:** 3

**Prerequisite(s):** Six hours of geography or permission of instructor; GEG 1300, GEG 2200, or HIS 1210 recommended

**Description:** This course examines the unique interrelationships between geography and history. Topics covered include frontiers and boundaries, settlement patterns, environmental perception, sequent occupancy, changing land-use practices, migration, and urban growth. Further, the course addresses the interrelationships between different physical environments and cultural landscapes.

### **GEG 3100 - Geography Methods and Applications**

**Credits:** 3

**Prerequisite(s):** GEG 1000 or GEG 1100 or GEG 1300 or GEG 1700 or GEG 1910 or GIS 2250, or permission of the instructor

**Description:** What does it mean to be a Geographer? Geography bridges the social and natural sciences. It focuses on spatial analysis, and on understanding and solving human-environmental problems. In this course, students are introduced to the theory, methods and applications of Geography. Students explore the common perspectives and themes that underlie this broad discipline, and examine how Geography is applied to improve conditions in the world today paying particular attention to contemporary topics and local applications.

### **GEG 3120 - Geomorphology**

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or permission of instructor

**Description:** This course explores Earth's landforms, including their origins and evolution over time. Maps and remote imagery are used in geomorphologic interpretations.

**Field Trips:** Field trips are required  
**Cross Listed Course(s):** GEL 3120

### **GEG 3230 - Latin American Geographies**

**Credits:** 3

**Prerequisite(s):** Junior or higher standing

**Description:** Students in this course learn how nature, culture, and socio-political relations have shaped the landscapes of Middle and South America from a geographical perspective. The emphasis of the course is to examine the intersection of environment and society; that is, how power relations are imbricated with people's use of environments and access to resources. Specifically, the course focuses on how major regional patterns of political ecologies of development have shaped and continue to define Latin America's geography. Topics include development conditions, resource use and environmental politics, extractivism, deforestation and biodiversity conservation, agrarian and environmental struggles, indigeneity politics, and climate change-induced disruptions, and emigration and refugees. Within this perspective, the course provides an understanding of how sociopolitical and economic issues with environmental factors are part of the connections between the United States and Latin America.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **GEG 3300 - Indigenous Geographies of North America**

**Credits:** 3

**Prerequisite(s):** GEG 1300 or NAS 1000 or PSC 1010 or junior or higher standing

**Description:** In this course, we examine Indigenous Peoples' relationships to land and power in North America with a focus on the United States. Colonial legacies of dispossession, genocide, and the reservation system frame how we discuss and interpret physical and symbolic violence against Indigenous Peoples. We begin with a historical geographic exploration of Indigenous land use patterns and how European arrival and invasion radically destabilized Native cultures. U.S. government policies and actions including the establishment of reservations and Tribal governments illustrate how institutions shape contemporary political, economic, social, cultural, and environmental relationships. Contemporary issues such as natural resource extraction, economic development, intersectionality, and cultural resilience influence the experiences of Native Americans on and off reservations.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 3300, PSC 3300

### **GEG 3330 - Climatology**

**Credits:** 3

**Prerequisite(s):** MTR 1400 or GEG 1100, and completion of quantitative literacy

**Description:** Climatology examines the characteristics, distribution, and causes of global and regional climate. Physical and dynamic mechanisms of climate are emphasized. The course also explores the spatial and temporal distributions of the main climate elements. Climate change topics include paleoclimatology, observed shifts in

climate, climate model projections, and potential impacts of global warming.

*Note: Credit will be granted for only one prefix*

**Cross Listed Course(s):** MTR 3330

### **GEG 3360 - Economic Geography**

**Credits:** 3

**Prerequisite(s):** GEG 1300 or junior or higher standing

**Description:** This course investigates the economic landscape and global patterns of spatial interdependence and fragility from a political economic perspective. Major themes explored include uneven economic development, the role of state and non-state actors, how social identities influence economic geographies, the commodification of nature, and alternative and more sustainable development paths. Key ideas and case studies are used to analyze contemporary policies, patterns, and relationships seen in local, national, and global economies.

### **GEG 3410 - Biogeography**

**Credits:** 3

**Prerequisite(s):** GEG 1100 or GEL 1010 or MTR 1400 or ENV 1200

**Description:** This course examines past and present geographic patterns of biodiversity, emphasizing the physical and ecological conditions and processes that influence the distribution of organisms, communities, and ecosystems. Topics include past climates and continental configurations, dispersal and invasion, speciation and extinction, biogeographic responses to anthropogenic climate change, island biogeography, and application of biogeographic concepts to environmental conservation.

### **GEG 3420 - Soil Resources**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEL 1010 or GEG 1100

**Corequisite(s):** ENV 3422 or GEL 3422 or GEG 3422

**Description:** This course analyzes the materials and processes that combine to produce various soil types. Soil types are examined in relationship to climate, landforms, vegetation, and geology, as well as in relation to land-use patterns.

*Note: This course is cross-listed as GEG 3420, ENV 3420, and GEL 3420. Students can only take one of the courses for credit.*

**Cross Listed Course(s):** ENV 3420, GEL 3420

### **GEG 3422 - Methods of Soil Analysis and Sampling**

**Credits:** 1

**Prerequisite(s):** ENV 1200 or GEG 1100 or GEL 1010

**Corequisite(s):** GEL 3420 or GEG 3420 or ENV 3420

**Description:** This course surveys measurement techniques and principles used in characterizing the physical and chemical properties of soils. It includes soil sampling techniques, analysis of experimental design, sources of experimental error, and standard and instrumental methods of chemical analysis.

*Note: Credit will be granted for only one prefix, ENV, GEL, or GEG*

**Lab Fees:** \$25

**Cross Listed Course(s):** ENV 3422 , GEL 3422

### **GEG 3440 - Energy and Mineral Resources**

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or ENV 1200 or permission of instructor

**Description:** This course provides an overview of the Earth's energy and mineral systems with an emphasis on origin, characteristics, distribution, and the interaction of people and geologic resources.

*Note: Credit will be granted for only one prefix.*

**Field Trips:** Field trips are required.

**Cross Listed Course(s):** ENV 3440, GEL 3440

### **GEG 3520 - Regional Geography: Variable Topics**

**Credits:** 2-3

**Prerequisite(s):** Six hours of earth science courses Specific regions of the world will be selected for in-depth study

**Description:** Topics will include physical and cultural geography, demographics, economic activity, urbanization, political geography, and environmental issues.

*Note: The course may be repeated for credit as a different region is studied.*

### **GEG 3600 - Urban Geography**

**Credits:** 3

**Prerequisite(s):** GEG 1300 or Junior or higher standing

**Description:** The course surveys the theories and debates in urban geography - an interdisciplinary and continually changing body of knowledge that aims to analyze and to interpret the form, function and structure of cities. The course covers a range of theoretical topics relevant to the study of cities, which include urban form and design, culture and society, urban space, and urban politics and economics. Besides this theoretical background, the course provides an empirical analysis of the main issues concerning the contemporary process of urbanization in developed and developing societies, with an emphasis on urban poverty, inequality and housing; and the role of urban social movements and activist urbanists in finding innovative solutions to persistent problems.

### **GEG 3610 - Principles of Land Use Planning**

**Credits:** 3

**Prerequisite(s):** GEG 3600

**Description:** In this course students learn basic land-use planning concepts and how to analyze land-use patterns, interpret land-use maps, and analyze existing land-use plans. Further, students learn how to collect relevant data, prepare a comprehensive land-use plan, and predict future planning issues. Special attention is paid to Geographic Information Systems (GIS) in land-use planning.

### **GEG 3630 - Transportation Planning and Land Use**

**Credits:** 3

**Prerequisite(s):** GEG 3610, six additional hours of geography

**Description:** This course is an analysis of transportation systems as they relate to other types of land use. Transportation networks are examined in terms of types, patterns, and densities. Consideration is given to alternative transportation systems as they relate to energy savings, pollution prevention, and the reduction of congestion.

### **GEG 3700 - Urban Sustainability**

**Credits:** 3

**Prerequisite(s):** GEG 1700 or Junior or higher standing

**Description:** This course examines the relationship between urbanization and sustainability. It analyzes the opportunities and challenges of cities to initiate, foster and manage the pace of change needed to transition to sustainability. It evaluates how cities throughout the world are planning for sustainability and reducing their carbon footprint and, in doing so, learning how to foster change in local contexts. The course also provides students with the professional tools to identify and learn how sustainable urban planning practices generated in dynamic U.S. and international contexts can be adapted to different urban local settings to find creative ways to transition to urban sustainability.

### **GEG 3720 - Global Sustainable Development**

**Credits:** 3

**Prerequisite(s):** GEG 1700 or Junior or higher standing

**Description:** This course surveys the sustainability concept and sustainable development practices focusing on: economic growth and environmental degradation, the overuse of resources and the generation of waste, and the effectiveness of environment protection and environmental justice. It examines the environmental implications of production systems, consumption patterns, and waste generation in the global north as well as poverty and exclusion in the global south. It reviews the evolution of sustainability and sustainable development as major policy-making paradigms for addressing the tension between economic development and environmental protection. The course also examines the technocentric approach to environmental degradation and other alternative approaches that emphasize justice, socio/economic equity and ecological responsibility.

### **GEG 3920 - Directed Study in Geography**

**Credits:** 2-6

**Prerequisite(s):** Departmental or instructor permission

**Description:** This course provides an opportunity for upper-division students to conduct a specific project in the field of Geography. Students may develop a unique undergraduate research project or assist with a research project initiated by a faculty member. The faculty advisor guides each. The course requires permission of the instructor to enroll. Students may not receive more than 9 hours of credit for this course and the previous courses titled "Directed Study in Land Use."

### **GEG 4020 - Field Experience in Teaching Social Studies in Secondary Schools**

**Credits:** 3

**Prerequisite(s):** EDS 3140

**Corequisite(s):** HIS 4010

**Description:** This field-based course provides opportunities to develop teacher candidates' professional and pedagogical skills in a Social Studies classroom. In coordination with the classroom teacher, teacher candidates will design and implement content lessons, use content strategies to improve both information acquisition and literacy skills, and adjust instruction for students with diverse needs, including Culturally and Linguistically Diverse backgrounds. Course assignments and evaluations are designed to help teacher candidates become reflective practitioners. HIS 4010 Methods of Teaching Social Science is recommended as a co-requisite course.

*Note: Credit will be granted for only one prefix: GEG or HIS.*

**Cross Listed Course(s):** HIS 4020

### **GEG 4150 - Hydrology (Surface Water)**

**Credits:** 4

**Prerequisite(s):** GEG 1100 or GEG 1910 or ENV 1200 or GEL 1010, and General Studies Quantitative Literacy complete

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** In this course, students examine surface waters with respect to water flow, drainage systems, storage, pollution and environmental relationships. The hydrologic cycle is studied with respect to the amount and distribution of water, the movement and fluxes of water and current water-related issues. Topics addressed include hydrologic data sources, statistical analysis in hydrologic problem-solving, snow and snowmelt, hydrograph analysis, hydrographic routing, hydrologic modeling and current challenges of urban hydrology, hydrologic models and hydrologic design. Use of spreadsheet software is required.

*Note: Credit will be granted for only one prefix: ENV, GEL, GEG, or HON.*

**Cross Listed Course(s):** ENV 4150, GEL 4150, HON 4150

### **GEG 4250 - Hydrogeology (Groundwater)**

**Credits:** 4

**Prerequisite(s):** GEL 1010, CHE 1800, MTH 1110

**Prerequisite(s) or Corequisite(s):** GEL 3420

**Description:** This course is a practical approach to the study of groundwater with emphasis on water quality, underground flow, pumping, and infiltration/recharge principles in relationship to the geologic environment. The course includes practical methods of laboratory water quality testing, groundwater flow analysis and experimentation, as well as septic system design and evaluation. Since mathematical models are involved, familiarity with graphing and algebraic operations is of essence. A foundational knowledge in geology is prerequisite.

*Note: Credit will be granted for only one prefix*

**Field Trips:** Self-guided group fieldtrips are required for this course

**Cross Listed Course(s):** ENV 4250, GEL 4250

### **GEG 4430 - Habitat Planning**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100

**Description:** This is an interdisciplinary course designed to examine the forces and impacts of urban expansion and other human activities (e.g., recreation, transportation, energy development) on ecological processes and wildlife habitats. Topics include conservation biology principles, problems with wildlife habitat conservation, and planning solutions to preserve wildlife habitat. Multiple spatial and political scales provide the context for analysis.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ENV 4430

### **GEG 4470 - Snow Hydrology**

**Credits:** 3

**Prerequisite(s):** ENV 1200; GEG 1910 or ENV 3400

**Description:** This course focuses on snow processes and their function as part of the hydrologic cycle. The course covers snow formation in the atmosphere, snow accumulation and measurement, snow distribution, snowpack metamorphism and basic energy exchange principles, snow chemistry, snow ablation and runoff, watershed processes, and snow management issues. Course content is amplified through case studies and/or field trip(s).

*Note: Credit will be granted for only one prefix: ENV or GEG*

**Cross Listed Course(s):** ENV 4470

### **GEG 4610 - Urban and Regional Planning**

**Credits:** 3

**Prerequisite(s):** GEG 3610

**Description:** This course studies the philosophy and scope of urban and regional planning and the principles and factors of planning and their interrelationships.

### **GEG 4620 - Residential Land Use Patterns**

**Credits:** 3

**Prerequisite(s):** GEG 3600 or GEG 3610 or six hours of urban studies courses

**Description:** This course examines spatial patterns of urban growth, factors that affect housing, the role of nonprofit developers in the current housing market, as well as theories that explain the residential mosaic of North American cities. It includes an analysis of current housing trends as well as the housing types, densities, patterns and geographic distribution, as well as the interrelationships with other aspects of the urban environment, including infrastructure.

### **GEG 4640 - Recreational Land Use Patterns**

**Credits:** 3

**Prerequisite(s):** GEG 3610 or Permission of instructor

**Description:** This course considers various types of recreation space, including greenbelts; open space; wilderness areas; and national, state and local parks. It relates recreational land to the land-use planning process, as well as the environmental impacts of recreation.

### **GEG 4700 - Sustainability in Resource Management**

**Credits:** 3

**Prerequisite(s):** GEG 1700 or Junior or higher standing

**Description:** The course traces the evolution of current thought and practice in the environmental debate of resources. It reviews the politics of resource management as it relates to a broader set of issues about economic development, sustainability, and social equity. It examines the environmental and social effects associated with development of specific land-based resources. Topics covered include consumerism, the growth economy, global climate change, hydropolitics, food systems and agriculture, deforestation, warfare, and ecological and human impacts of environmental degradation. The course provides a framework to examine the politics of resource management and environmental policy and how contending approaches and practices impact human development and environments.

### **GEG 4710 - Legal Aspects of Land Use**

**Credits:** 3

**Prerequisite(s):** ENV 4010 or GEG 3610 or Permission of instructor

**Description:** This course studies the laws, ordinances, and regulations related to land use, as well as the role of federal, state, and local government in regulating and controlling land use. The course makes use of case studies and local issues.

### **GEG 4720 - Planning for Climate Change**

**Credits:** 3

**Prerequisite(s):** Junior or higher standing

**Description:** Regions throughout the United States are experiencing profound impacts of climate change on local economies, communities, and environments. In this course, students study how hazard mitigation planning and community emergency planning can reduce the long-term risks and impacts of climate change in the United States. While hazards such as floods, hurricanes, and droughts cannot be prevented, risks to life and property can be greatly reduced through advanced planning. This course analyzes policies, practices and cases that illustrate how natural-environmental hazards are exacerbated by climate change and inextricably intertwined with sustainable development. Sustainable community development can improve social equity while minimizing environmental damage, reducing community vulnerability to natural disasters that are intensified by climate change.

*Note: Some sections of this course may be taught as Service Learning.*

### **GEG 4950 - Internship in Geography**

**Credits:** 2-15

**Prerequisite(s):** Departmental or instructor permission

**Description:** This course provides an on-the-job internship experience with a geography-related company or agency. The experience must be done under qualified supervision and under the direction of an Earth and Atmospheric Sciences faculty member. Students may not receive more than 15 hours of credit for this course and the previous course titled "Internship in Land Use."

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the*

*Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

### **GEG 4970 - Sustainability Practice Seminar**

**Credits:** 3

**Prerequisite(s):** 12 hours of upper-division courses in natural and/or social science or written permission of instructor; completion of all SBS I and II and Natural and Physical Sciences General Studies course requirements, senior standing.

**Description:** This course is a senior-level, capstone seminar for EAS students addressing the issue of how to integrate the environmental, social, and economic dimensions of sustainability into decision-making, project development, and assessment. The primary purpose of the course is to develop the knowledge and skills required to evaluate sustainable proposals and existing sustainable practices and to develop new alternatives for problem-solving. Topics covered include sustainable planning for climate change and adaptation to water scarcity. The pedagogic strategy of this course is to provide students with a grounded, hands-on experience in the practice of sustainability assessment.

**University Requirement(s):** Senior Experience

### **GEG 4975 - Geography Capstone**

**Credits:** 3

**Prerequisite(s):** GEG 3100 and Senior Standing

**Description:** A senior-level capstone course for geography and other majors addressing the issue of how to integrate research for decision-making to address broad geographical human-nature interactions. The primary purpose of the course is to develop the knowledge and skills required for complex problem-solving with the project development and planning approach. The pedagogic strategy of this course is to provide students with a grounded, hands-on experience in the professionalization of geographical skills and knowledge.

**University Requirement(s):** Senior Experience

## **Geology**

### **GEL 1010 - Physical Geology**

**Credits:** 4

**Description:** This course introduces the basic theories, concepts, and assumptions used in geology, utilizing both lecture and laboratory components. It includes earth's internal systems from core to crust, as well as the dynamics of the lithosphere with its processes, products, and effects on the environment. Students will learn to identify common rocks and minerals.

**Field Trips:** A field trip is required.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### **GEL 1020 - Geology of Colorado**

**Credits:** 3

**Description:** This science course focuses on the State of Colorado to introduce basic concepts, principles, theories, and assumptions in geology. The course covers Colorado's major geological provinces

and landforms; common minerals, rocks, and fossils; geologic processes; geologic resources and hazards; and important events in Colorado's geologic history.

**Field Trips:** One field trip is required.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **GEL 1030 - Historical Geology**

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or permission of instructor

**Description:** This course presents the origin and history of the Earth as well as the evolution of its life, based on the rock and fossil record. The course also reviews the changing geography of the Earth through geologic time, emphasizing the theory of plate tectonics.

**Field Trips:** A field trip is required.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### **GEL 1150 - Physical Oceanography**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics pre-assessment placement tests

**Description:** This introductory course studies the world's oceans, including geographic, geologic and physical features of the ocean basins and the physical and chemical properties of ocean water. Other major topics include ocean exploration, ocean waves, currents and tides, air-sea interactions, marine ecology, and geologic history. The course emphasizes the use and control of ocean resources and the impact of ocean pollution.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **GEL 1510 - Geology of Red Rocks Park and Vicinity**

**Credits:** 1

**Prerequisite(s):** GEL 1010 recommended

**Description:** This course examines the geology of Red Rocks Park and vicinity, including rocks formed over a period of approximately 1.7 billion years. Along with basic concepts of geology, the formations exposed along the Front Range, including their ages, rock types, origins, and economic products, are examined within a concept of geologic history. The geologic history includes Colorado's famous "disappearing" mountain range (the Ancestral Rocky Mountains), evidence of ancient oceans and deserts, dinosaur bones and tracks and the uplift of the modern-day Rocky Mountains.

*Note: Students may not receive credit for both GEL 1510 and GEL 1520. Students cannot enroll in both GEL 1510 and GEL 3510 for credit at the same time.*

### **GEL 1520 - Garden of the Gods-Front Range Geology**

**Credits:** 2

**Prerequisite(s):** GEL 1010 recommended

**Description:** This course examines the geology along the Front Range from Boulder to Colorado Springs through rock exposures covering a span of approximately 1.7 billion years. Basic concepts of

geology are applied to the formations exposed along the Front Range. These formations are examined with respect to age, rock type, origin, and economic products. The geologic history includes Colorado's famous "disappearing" mountain range (the Ancestral Rocky Mountains), evidence of ancient oceans and deserts, dinosaur bones and tracks, and the uplift of the modern-day Rocky Mountains.

*Note: Students may not receive credit for both GEL 1510 and GEL 1520. Students cannot enroll in both GEL 1520 and GEL 3520 for credit at the same time.*

### **GEL 1530 - Geology of the Colorado Plateau**

**Credits:** 2

**Prerequisite(s):** None; GEL 1010, GEL 1510, GEL 1520 and/or GEL 1560 are recommended

**Description:** This course examines the geology of the eastern Colorado Plateau, including the geology of the Colorado National Monument, Arches National Park, and Southern Canyon lands National Parks. Along with basic concepts of geology, the formations exposed in the eastern Colorado Plateau, including their ages, rock types and origins, are examined. Historical geology and geomorphology come to life in this beautiful, desolate, arid country. Students must be in good physical condition because strenuous hiking is involved, and students must have prior camping experience.

*Note: Note: Students cannot take both GEL 1530 and GEL 3530 for credit.*

### **GEL 1550 - Geology of the Great Sand Dunes National Monument**

**Credits:** 2

**Prerequisite(s):** GEL 1010 recommended

**Description:** This course emphasizes the processes and landforms associated with the eolian (wind) and desert environments at the Great Sand Dunes National Monument, located in the San Luis Valley between the San Juan and Sangre de Cristo Mountains. Investigations of the dune fields allow students to identify various types of dunes, as well as damage related to desertification. The relationships of sand source areas, cross-bedding, and transport directions are investigated.

*Note: Students cannot take both GEL 1550 and GEL 3550 for credit.*

### **GEL 2530 - Introduction to Geologic Fieldwork**

**Credits:** 2

**Prerequisite(s):** GEL 1010, GIS 1220 or equivalent

**Description:** This course is an introduction to field measurements and data collection for earth scientists. It examines methods and procedures in sampling, measuring, describing, mapping, and ascertaining field data. The heart of the course is a week-long field experience studying a variety of geologic features where students are trained in hands-on practices pertinent to industry and academia, such as strike and dip measurements, triangulation procedures, field notebook entries, and orienteering. Students must be in good physical condition because strenuous hiking is involved. Additional field trip fees are required.

### **GEL 3050 - Introduction to Mineralogy and Optical Mineralogy**

**Credits:** 4

**Prerequisite(s):** GEL 1010, CHE 1800

**Description:** This course examines common minerals, their origin, associations within rocks, their basic geochemistry and identification. It includes a discourse in crystallography, as well as methodologies of identification utilizing practical laboratory and field techniques such as hand specimens analysis, chemical methods, X-ray crystallography, and the use of optical microscopy.

**Field Trips:** A field trip is required.

### **GEL 3120 - Geomorphology**

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or permission of instructor

**Description:** This course explores Earth's landforms, including their origins and evolution over time. Maps and remote imagery are used in geomorphologic interpretations.

*Note: Credit will be granted for only one prefix.*

**Field Trips:** Field trips are required

**Cross Listed Course(s):** GEG 3120

### **GEL 3420 - Soil Resources**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEL 1010 or GEG 1100

**Corequisite(s):** ENV 3422 or GEL 3422 or GEG 3422

**Description:** This course analyzes the materials and processes that combine to produce various soil types. Soil types are examined in relationship to climate, landforms, vegetation, and geology, as well as in relation to land-use patterns.

*Note: This course is cross-listed as GEG 3420, ENV 3420, and GEL 3420. Students can only take one of the courses for credit.*

**Cross Listed Course(s):** ENV 3420, GEG 3420

### **GEL 3422 - Methods of Soil Analysis and Sampling**

**Credits:** 1

**Prerequisite(s):** ENV 1200 or GEG 1100 or GEL 1010

**Corequisite(s):** GEL 3420 or GEG 3420 or ENV 3420

**Description:** This course surveys measurement techniques and principles used in characterizing the physical and chemical properties of soils. It includes soil sampling techniques, analysis of experimental design, sources of experimental error, and standard and instrumental methods of chemical analysis.

*Note: Credit will be granted for only one prefix, ENV, GEL, or GEG*

**Lab Fees:** \$25

**Cross Listed Course(s):** ENV 3422, GEG 3422

### **GEL 3440 - Energy and Mineral Resources**

**Credits:** 4

**Prerequisite(s):** GEL 1010 or GEG 1100 or ENV 1200 or permission of instructor

**Description:** This course provides an overview of the Earth's energy and mineral systems with an emphasis on origin, characteristics, distribution, and the interaction of people and geologic resources.

*Note: Credit will be granted for only one prefix.*

**Field Trips:** Field trips are required

**Cross Listed Course(s):** ENV 3440, GEG 3440

### **GEL 3510 - Advanced Geology of Red Rocks Park and Vicinity**

**Credits:** 1

**Prerequisite(s):** Nine hours of geography or geology or permission of instructor

**Description:** This course requires an analytical approach to the geology of Red Rocks Park and vicinity, including rocks formed over a period of approximately two billion years. The geologic history includes Colorado's famous "disappearing" mountain range (the Ancestral Rocky Mountains), evidence of ancient oceans and deserts, dinosaur bones and tracks, and the uplift of the modern-day Rocky Mountains.

*Note: Students cannot take both GEL 1510 and GEL 3510 for credit.*

### **GEL 3520 - Advanced Garden of the Gods-Front Range Geology**

**Credits:** 2

**Prerequisite(s):** Nine hours of geography or geology or permission of instructor

**Description:** This course requires an analytical approach to the geology along the Front Range from Boulder to Colorado Springs through rock exposures covering a span of approximately two billion years. Along with basic concepts of geology, the formations exposed along the Front Range, including their age, rock types, origins and economic products, are analyzed within a context of geologic history.

*Note: Students cannot take both GEL 1520 and GEL 3520 for credit.*

### **GEL 3530 - Field Geology: Variable Topics**

**Credits:** 2

**Prerequisite(s):** GEL 1010 AND at least one prior lower-division field course (e.g., GEL 1510, GEL 1520, GEL 1530, GEL 2530) or permission of instructor

**Description:** This advanced field course is an analytical, hands-on exploration of the geology of various regions. Field trips investigate historical geology, stratigraphy, geomorphology, structural geology, and more, all amid beautiful vistas that stretch the imagination. Variable topics focus on geologic destinations near and far, such as national parks, classic outcrops, fossil sites, quarries, and mines. Students must be physically able to complete moderately strenuous hikes. Prior field and camping experience are recommended.

*Note: Students cannot enroll concurrently in GEL 3530 and GEL 1530 during the same semester.*

*This course may be repeated up to 4 times under different topics.*

**Field Trips:** Additional field trip fees for transportation, food, lodging, etc. are required.

### **GEL 3550 - Advanced Geology of the Great Sand Dunes National Monument**

**Credits:** 2

**Prerequisite(s):** Nine hours of geography or geology or Permission of instructor

**Description:** This course analyzes the processes and landforms associated with the eolian (wind) and desert environments at the

Great Sand Dunes National Monument, located in the San Luis Valley between the San Juan and Sangre de Cristo Mountains. Analysis of the dune fields allows students to identify various type of dunes, as well as damage related to desertification. The relationships of sand source areas, cross-bedding and transport directions are analyzed.

*Note: Students cannot take both GEL 1550 and GEL 3550 for credit.*

### **GEL 3920 - Directed Study in Geology**

**Credits:** 2-6

**Prerequisite(s):** Fifteen hours in geology; Permission of instructor and department chair

**Description:** This course provides an opportunity for upper-division students with a strong background in geology to pursue study in a specific topic of interest and value. The course requires permission of the instructor and chair of the Earth and Atmospheric Sciences department and frequent meetings between student and instructor.

### **GEL 4000 - Geologic Hazards**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or GEG 1100 or GEL 1010 or permission of instructor

**Description:** This course investigates natural hazards that affect solid Earth. Case studies of exceptional and recent events link natural hazards to Earth's geologic processes and structures. The distribution, frequency, impact, and predictability of natural disasters, as well as strategies for reducing human injury and loss, are also considered.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ENV 4000

### **GEL 4050 - Igneous and Metamorphic Petrology**

**Credits:** 4

**Prerequisite(s):** GEL 3050

**Description:** This course involves the study of the nature, composition, origin, and history of igneous and metamorphic rocks. Students will be introduced to the principles that govern the mineralogical and textural diagenesis of these systems and their unique mineral assemblages. Lab exercises in optical microscopy, geochemical data interpretation, graphical analysis and classification modalities are essential components. Prior working knowledge of polarized optical microscopy, mineralogy, and chemistry is prerequisite. Familiarity with programming simple electronic spreadsheet algorithms is highly recommended. A fieldtrip is required.

### **GEL 4150 - Hydrology (Surface Water)**

**Credits:** 4

**Prerequisite(s):** GEG 1100 or GEG 1910 or ENV 1200 or GEL 1010, and General Studies Quantitative Literacy complete

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** In this course, students examine surface waters with respect to water flow, drainage systems, storage, pollution and environmental relationships. The hydrologic cycle is studied with respect to the amount and distribution of water, the movement and

fluxes of water and current water-related issues. Topics addressed include hydrologic data sources, statistical analysis in hydrologic problem-solving, snow and snowmelt, hydrograph analysis, hydrographic routing, hydrologic modeling and current challenges of urban hydrology, hydrologic models and hydrologic design. Use of spreadsheet software is required.

*Note: Credit will be granted for only one prefix: ENV, GEL, GEG, or HON.*

**Cross Listed Course(s):** ENV 4150, GEG 4150, HON 4150

### **GEL 4250 - Hydrogeology (Groundwater)**

**Credits:** 4

**Prerequisite(s):** GEL 1010, CHE 1800, MTH 1110

**Prerequisite(s) or Corequisite(s):** GEL 3420

**Description:** This course is a practical approach to the study of groundwater with emphasis on water quality, underground flow, pumping, and infiltration/recharge principles in relationship to the geologic environment. The course includes practical methods of laboratory water quality testing, groundwater flow analysis and experimentation, as well as septic system design and evaluation. Since mathematical models are involved, familiarity with graphing and algebraic operations is of essence. A foundational knowledge in geology is prerequisite.

*Note: Credit will be granted for only one prefix*

**Field Trips:** Self-guided group fieldtrips are required for this course

**Cross Listed Course(s):** ENV 4250, GEG 4250

### **GEL 4400 - Applied Field Volcanology**

**Credits:** 5

**Prerequisite(s):** GEL 3050

**Prerequisite(s) or Corequisite(s):** GEL 4050

**Description:** This hybrid field and lecture course explores volcanic activity both past and present. Eruptive mechanisms, lithology, geomorphology, environmental and economic impacts as well as geologic hazards are discussed. Hands-on field work applying theoretical knowledge to the active study of volcanic geology, associated petrology, and eruptive geohazard assessment by visiting several active volcanoes is an integral part of the course. Additional trip fees apply.

### **GEL 4450 - Sedimentary Geology and Stratigraphy**

**Credits:** 4

**Prerequisite(s):** GEL 1030 or permission of instructor

**Description:** This course focuses on geologic concepts, principles, theories, and techniques for investigating how sedimentary rocks and strata develop and change through space and time. Within this framework, the course covers the origin and transport of sediment; physical properties and classification of sedimentary rocks; sedimentary diagenesis; depositional environments; depositional basins; stratigraphic classification systems; and field techniques for sedimentary geology and stratigraphy.

**Field Trips:** Field trips are required

### **GEL 4460 - Structural Geology and Mapping**

**Credits:** 4

**Prerequisite(s):** GEL 4450

**Description:** This course focuses on concepts, principles, theories, and techniques to investigate the development and spatial orientation of geologic structures such as folds and faults, as well as the mapping of geologic structures. Field trips are required.

### **GEL 4950 - Internship in Geology**

**Credits:** 2-15

**Prerequisite(s):** Land Use major with upper division standing plus 12 upper division hours of earth science courses and Permission of the chair of the earth and atmospheric sciences department

**Description:** This course provides an on-the-job internship experience with a land-use-related company or agency. The experience must be done under qualified supervision and under the direction of an Earth and Atmospheric Sciences faculty member.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### **GEL 4970 - Undergraduate Research in Geology**

**Credits:** 4

**Prerequisite(s):** MTH 1210, GEL 3050, senior standing

**Description:** This course is a senior-level capstone course for geoscience majors that focuses on independent research to investigate a selected geological problem involving field and/or laboratory observations. Preparation of a paper or poster suitable for professional presentation is required.

**University Requirement(s):** Senior Experience

## **German**

### **GER 1010 - Elementary German I**

**Credits:** 5

**Description:** This course focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Oral Communication

### **GER 1020 - Elementary German II**

**Credits:** 5

**Prerequisite(s):** GER 1010 or its equivalent

**Description:** This course is a continuation of GER 1010 and focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Arts and Humanities, Global Diversity

### **GER 1800 - International German Year I**

**Credits:** 1-15

**Description:** This is a variable-credit course for first-year students learning German in a study-abroad setting. It recognizes an approved study-abroad educational experience in German speaking, comprehension, reading, and writing.

### **GER 2010 - Intermediate German I**

**Credits:** 3

**Prerequisite(s):** GER 1020 or equivalent

**Description:** This course is the first of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in German and will include a variety of interactive activities designed to help students develop their knowledge of German and their ability to use it productively in situations of communication.

### **GER 2020 - Intermediate German II**

**Credits:** 3

**Prerequisite(s):** GER 2010 or equivalent

**Description:** This course is a continuation of GER 2010 and is the second of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in German and will include a variety of interactive activities designed to help students develop their knowledge of German and their ability to use it productively in situations of communication.

### **GER 2110 - German Reading and Conversation**

**Credits:** 3

**Prerequisite(s):** One year of college German or equivalent or Permission of instructor

**Description:** This course prepares the student to read and to communicate with ease in German. It emphasizes vocabulary and idiomatic phrases used in everyday language.

### **GER 2120 - German Civilization**

**Credits:** 3

**Prerequisite(s):** One year of college German or equivalent or Permission of instructor

**Description:** This course emphasizes the broadening of reading and conversational skills. It introduces the student to various aspects of German civilization, from its geography and history to its philosophical and political thought, arts, music, and modern living.

### **GER 2800 - International German Year II**

**Credits:** 1-15

**Prerequisite(s):** One year of college German or equivalent

**Description:** This variable-credit course recognizes second-year

study of German language and culture in an approved study-abroad setting.

### **GER 3010 - Third-Year German Conversation**

**Credits:** 3

**Prerequisite(s):** GER 2110 or 2120 or four years of high school German

**Description:** This course strengthens conversational ability with more complicated idiomatic and structural elements, using techniques such as skits, debates, and small-group discussions to improve fluency and broaden the scope of communication. Conducted in German.

### **GER 3050 - Cultural Crossroads: France, Germany, Spain**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations.

*Note: Students can get credit for only one prefix.*

**Cross Listed Course(s):** FRE 3050, HON 3050, MDL 3050, SPA 3050

### **GER 3150 - German Phonetics: Theory and Practice**

**Credits:** 3

**Prerequisite(s):** Two years of college German or equivalent or Permission of instructor

**Description:** This course covers improvement of pronunciation and speech habits based on an understanding of the phonetics of German. After an introduction to the basic speech mechanism through principles of linguistics, the course offers practice in pronunciation through the declamation of selected texts.

### **GER 3200 - German Culture and Civilization**

**Credits:** 3

**Prerequisite(s):** Two years of college German or equivalent, or permission of instructor; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course is an advanced German conversational approach to the main cultural events that have shaped German lifestyles. Historical events, as well as modern German lifestyles of Germany, Austria, and Switzerland are discussed. The format is reading-discussion, conducted in German. Students are required to give oral presentations.

### **GER 3210 - Survey of German Literature I**

**Credits:** 3

**Prerequisite(s):** Two years of college German or equivalent or Permission of instructor

**Description:** This course provides an insight into German historical and cultural development through selected readings in German literature, from its beginning to the 18th century.

### **GER 3220 - Survey of German Literature II**

**Credits:** 3

**Prerequisite(s):** Two years of college German or equivalent or Permission of instructor

**Description:** This course covers the history of German literature of the 18th, 19th, and early 20th centuries, including selected readings of principle German authors, lectures on biography and criticism, and recitation. Conducted in German.

### **GER 3300 - Advanced German Grammar**

**Credits:** 3

**Prerequisite(s):** Two GER courses at the 2000 level

**Description:** This course is designed to prepare the student for the demands of the use of literary and scientific German at advanced levels. Students are led into an appreciation of the deeper structures of the language and the functional aspects of grammar in communication.

### **GER 3800 - International Advanced German**

**Credits:** 1-15

**Prerequisite(s):** Junior or Senior standing in German or equivalent

**Description:** This course recognizes upper-division study in language, culture, and literature in a study abroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in German.

## **Health Care Management**

### **HCM 2010 - Global Health Systems**

**Credits:** 3

**Prerequisite(s):** General Studies Written Communication Requirement

**Description:** In this course, students will analyze the structure of healthcare systems, whether self-pay, privately funded or government-subsidized in industrialized and developing nations. Emphasis is placed on the similarities and differences, as well as the context of economic, historical/political, social/cultural, and technological frameworks of healthcare systems. The global interdependence among nations and economies has an effect on the delivery and management of healthcare services around the world.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **HCM 2500 - Health Care Management Foundations, Professionalism, and Applications**

**Credits:** 3

**Prerequisite(s):** 20 credit hours and General Studies Written Communication Requirement

**Description:** The purpose of this course is to provide industry specific skills to students enrolled in the HCM program, as well as lay a foundation for the internship. Students will review course curriculum, department rules for participation in prescribed courses, expectations of written work, project management skills, preparation for the internship experience, use of available resources, i.e., writing and research, etc., networking and industry experience. Elements of ethical and professional conduct and etiquette, in both university courses and the internship, will be examined along with techniques for the use of technology in the industry and for completing assignments.

### **HCM 3030 - Health Care Jurisprudence**

**Credits:** 3

**Corequisite(s):** HCM 3150

**Description:** This course examines the legal and ethical issues involved in the management and delivery of health care services. Emphasis is placed on law as it pertains to medical negligence, malpractice/ professional liability, medical records/information management, patient consent, confidentiality/privacy, patient rights/responsibilities, contracts, labor relations, and other current issues.

### **HCM 3100 - Entrepreneurship in Health**

**Credits:** 1

**Prerequisite(s):** General Studies Written Communication and Quantitative Literacy Requirements; or permission of instructor

**Description:** This course serves as an introduction to entrepreneurship in health and wellness. Topics addressed in the class include: becoming an entrepreneur and finding a worthwhile project, the models and tools that entrepreneurs use, leveraging available resources, unique challenges in health care, creating a business plan, and attracting funding. Best practices will be examined and techniques applied through the use of real world examples of innovation in health care.

### **HCM 3150 - Health Care Organization and Management**

**Credits:** 3

**Prerequisite(s):** Junior standing or higher

**Description:** This course is designed to familiarize students with the organizational structure of the health care field and to provide a general orientation to management practices within the industry. Emphasis is placed on the interrelatedness of cultural, economic, political, technological and social aspects of health care delivery, along with its services and management. Further, the course will explore the differences in management of health care from other commodities and the importance patient care and ethical issues for the manager to consider. Disease origins and epidemiology are explored as background for the aspiring management student.

### **HCM 3200 - Managing Quality in Health Care**

**Credits:** 2

**Prerequisite(s):** General Studies Written Communication and Quantitative Literacy Requirements; or permission of instructor

**Description:** This course is an introduction to the methods and tools for managing quality in health care, and developments in quality assurance, utilization review, continuous quality improvement, and total quality management in health services, including hospitals, ambulatory care settings, managed care and public health.

### **HCM 3400 - Human Resources Management in Health Care**

**Credits:** 3

**Prerequisite(s):** HCM 3150; or permission of instructor

**Description:** This course is designed to analyze principles significant to human resource management in health care. Specific attention is placed on human resource functions, competencies, structures, quality, performance management, legal and labor issues, benefits, and recruitment and retention. Students explore the development of cover letters, resumes, and different interview techniques from both applicant and manager perspectives.

### **HCM 3500 - Health Care Research Methods**

**Credits:** 3

**Prerequisite(s):** HCM 3150 and statistics

**Description:** This course examines the research process, research terminology and the role of research as a tool for understanding and improving financing, delivery, and management in health care organizations. Students critique relevant research articles, explore sources of funding for research projects, and apply this knowledge to health care management projects.

### **HCM 3550 - Leadership in Health Care**

**Credits:** 1

**Prerequisite(s):** HCM 3150; or permission of instructor

**Description:** This course is an introduction to the concepts of leadership in health care. It presents the traits, styles and skills of effective leaders. It also addresses the tools and techniques used by leaders within health care organizations. Leadership during crises and of multicultural teams is analyzed. Students gain understanding of personal leadership traits and examine others' leadership styles.

### **HCM 3600 - Health Information Systems**

**Credits:** 3

**Prerequisite(s):** HCM 3150 or permission of instructor

**Description:** This course is a general introduction to health care management information system, focusing on the role and importance of electronic communication and data transmission. Planning and change management in health care information technology are emphasized. The materials cover patient-centered technologies found in the health enterprise today.

### **HCM 3700 - Health Disparities in the U.S.**

**Credits:** 3

**Description:** This course analyzes health disparities across racial and

ethnic groups in the U.S. with respect to health conditions, risks and prognoses. Methods to change caregiver responses, interventions to improve health care outcomes, and health and social policy changes to address health disparity issues are discussed.

*Note: Credit will be granted for only one prefix: HCM or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3703

### **HCM 3750 - Professional Practice Management**

**Credits:** 1

**Prerequisite(s):** HCM 3150; or permission of instructor

**Description:** This course is designed to provide a general orientation to practice management in the field of health care. The focus is on basic practice management concepts, skills, and functions considered necessary for effective and successful healthcare professional practice management.

### **HCM 3800 - Long-Term Care: Managing Across the Continuum**

**Credits:** 3

**Prerequisite(s):** HCM 3150; or permission of instructor

**Description:** This survey course defines the critical issues and adaptive strategies used in long-term care management. This course addresses the continuum of long-term care and the variety of providers of care. Regulatory, legal, ethical, financing, quality, information technology, marketing and other issues are discussed. This course acquaints students and health care providers with future issues and likely changes in the continuum of care.

### **HCM 3830 - Analytical Methods in Health Data**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** HCM 3150, HCM 3600

**Description:** This course allows the student to explore the role of analytics in supporting a complex, data-driven, healthcare industry. Key topics include analytic techniques and methods (spreadsheets, formulating study questions, report writing, presentations) to examine issues such as measuring health system performance, comparing health care delivery, and assessing the health of populations.

### **HCM 3840 - Statistical Methods in Health Data**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** HCM 3150, HCM 3600

**Description:** This course will provide students with a general foundation of descriptive and inferential statistics of health care data using an analytical statistical software application, eg, SAS or similar application.

### **HCM 3850 - Database Systems in Health Care**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** HCM 3150, HCM 3600

**Description:** This course will provide students with the tools to understand the role of health data sets in defining and scoping business and clinical intelligence and apply the techniques of data science and statistical tools. This course provides an overview of data

quality and governance, specific issues in various types of health care analyses, and emerging trends, and offers a final experience in the Health Data Science Certificate Program.

### **HCM 3860 - Health Care Business Intelligence**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** HCM 3150, HCM 3600

**Description:** This course will provide students with the tools to understand the role of health data sets in defining and scoping business and clinical intelligence and apply the techniques of data science and statistical tools. This course provides an overview of data quality and governance, specific issues in various types of health care analyses, and emerging trends, and offers a final experience in the Health Data Science Certificate Program.

### **HCM 3980 - Internship in Health Care Management**

**Credits:** 1-15

**Prerequisite(s):** Major in Health Care Management; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **HCM 4030 - Financial Management in Health Care**

**Credits:** 3

**Prerequisite(s):** ACC 2010 and HCM 3020 with a grade of C or better.

**Description:** This course surveys the organizational and operational aspects of fiscal analysis and control of health care institutions. Particular attention is given to the importance of third-party payer and reimbursement issues. Emphasis is placed on the practical processes involved in the determination and analysis of tax status, revenues, costs, charges, inventory/materials management, working capital levels, budgets, and financial reporting.

### **HCM 4040 - Health Care Economics**

**Credits:** 3

**Prerequisite(s):** ECO 2020 and HCM 3150 with a grade of C or better

**Description:** This course examines the major economic issues facing the health care industry with emphasis on microeconomic theory. The student assesses the relevance of economics to health and medical care and applies the principles to related health issues. The student will understand the mechanisms of the health care delivery system within the broad social, political, and economic contexts. The student

will explore the ever changing nature of the health care industry and analyze related public policy from an economic perspective.

### **HCM 4150 - Electronic Medical Record Applications and Support**

**Credits:** 3

**Prerequisite(s):** HCM 3600 and CIS 3060, both with a grade of "C" or better, or permission of instructor

**Description:** Students in this course will be oriented to the detailed elements of an electronic medical record (EMR) and how it is used in the support of contemporary, patient-care services. The course will consist of several detailed experiential scenarios to familiarize the student with the use of the EMR in documenting patient-care services. The course will then lead the student through applying skills database administration and process analysis to maintain and support the EMR application in a health care organization.

### **HCM 4161 - Disaster Planning and Control**

**Credits:** 3

**Prerequisite(s):** Meets General Studies requirement for written communication and quantitative literacy.

**Prerequisite(s) or Corequisite(s):** FER 3140

**Description:** Students examine concepts and principles of community risk assessment, planning, and response to fires, natural and man-made disasters, including National Institute Management System (NIMS) and Incident Command System (ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery.

*Note: Credit will be granted for only one prefix: FER or HCM. Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** FER 4610

### **HCM 4300 - Strategic Management in Health Care**

**Credits:** 3

**Prerequisite(s):** HCM 3150

**Description:** This course is designed to discuss the role of the health care manager in health care planning and strategic management, as well as the concepts and methodology of strategic management as applied in health care. Emphasis is placed on how health care organizations adapt in a rapidly changing environment.

### **HCM 4350 - Health Care Information Systems Applications**

**Credits:** 3

**Prerequisite(s):** HCM 3600, CIS 3460, all with a grade of "C" or better, or permission of instructor

**Description:** This course presents a synthesis of health care management (HCM) and computer information systems (CIS) content to prepare the student for decision-making responsibilities as a practitioner in the field of health care information systems. A review of critical concepts from the HCM and CIS curriculum for the B.S. in Health Care Information Systems curriculum will be followed

by an overview of applications used in the health care industry that interact with and support the electronic medical record (covered in HCM 4150), including administrative systems, clinical decision support, health information exchange, and digital clinical imaging applications. Discussion of these applications will include a review of data gathered by each, the interfaces sharing data with other applications, the business and clinical processes supported by each, and a case study that synthesizes the relationships among health information applications.

### **HCM 4500 - Health Care Management Pre-Practicum**

**Credits:** 2

**Prerequisite(s):** All 3000-level HCM courses, HCM 4020, all required support courses (This course must be taken the semester prior to HCM 4510)

**Description:** This is a preparatory course required of HCM majors prior to taking HCM 4510, the Health Care Management Practicum. Students are required to prepare a résumé, develop information interviewing skills, determine a health care placement agency and preceptor, and develop a proposal for a practicum project under faculty guidance.

### **HCM 4510 - Health Care Management Practicum**

**Credits:** 6

**Prerequisite(s):** HCM 4500, plus either HCM 4030 or 4040

**Description:** A capstone course designed to provide the student with the opportunity to integrate and operationalize previously learned health care management knowledge and skills. The student completes a health management project. The management area of study and the practicum setting are mutually agreed upon by the student, the faculty member, and the health facility preceptor. Practical management topics are emphasized in seminar sessions.

**University Requirement(s):** Senior Experience

### **HCM 4600 - HCM Pre-Internship**

**Credits:** 1

**Prerequisite(s):** All required 3000-level HCM courses and required support courses with a grade of C or better

**Corequisite(s):** HCM 4605

**Description:** This course is the first step in preparing HCM majors for internship. Students are required to develop information interviewing skills, determine a health care placement agency and preceptor, develop a personal strategic plan, and prepare for the first phase of the internship.

### **HCM 4605 - HCM Internship I**

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** HCM 4600

**Description:** This is the first part of the HCM major's internship experience. It is intended to acquaint the student with the organization in which the internship is being conducted, to allow students to explore areas of interest within the organization, and to evaluate options relating to how the remainder of the internship will be carried out. This course must be taken the semester prior to taking

HCM 4610, HCM Internship II. Students are required to prepare a proposal pertaining to the specific projects that will be performed.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

## **HCM 4610 - HCM Internship II**

**Credits:** 6

**Prerequisite(s):** HCM 4605

**Description:** This capstone course provides students with the opportunity to integrate and operationalize previously learned health care management knowledge and skills. The internship provides an opportunity for students to learn first-hand about working with others in a professional setting. Students complete management projects in a health-related organization.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

**University Requirement(s):** Senior Experience

## **HCM 4920 - Health Care Information Systems Internship**

**Credits:** 3

**Prerequisite(s):** Minimum of twelve (12) semester hours of upper-division courses from CIS or HCM courses listed in the HCIS Major curriculum, all with a grade of "C" or better, or permission of instructor

**Description:** This capstone course provides students with the opportunity to integrate and operationalize previously learned health care management and computer information systems knowledge and skills in a field experience specific to the health care information systems discipline. The internship provides an opportunity for students to learn firsthand about working with others in a professional setting. Students complete projects using or working with health care information system applications in a health-related organization.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Credit will be granted for only one prefix: CIS or HCM.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** CIS 4920

## **Health Care Professional Services**

### **HCPS 2700 - Medical Cannabis Law and Ethics**

**Credits:** 3

**Description:** Students in this course will survey the major legal and ethical issues of the health care cannabis systems in the United States. The course covers the legal issues surrounding the relationships of patient, provider, and health care institution as well as historical considerations of cannabis. There will be specific inquiry into how organizations that work with cannabis manage from a legal standpoint. Further, the course will focus on shareholder responsibility, corporate compliance, key cases that control cannabis health care law, federal and state considerations as well as the ongoing changes that are taking place currently. Ethics from the standpoint of the grower, distributor and user will also be considered.

### **HCPS 3000 - Introduction to Patient Navigation**

**Credits:** 3

**Prerequisite(s):** 45 credit and General Studies- Written Communications Requirement and Quantitative Literacy Requirements

**Description:** Students in this course will learn the basic concepts of patient navigation and the patient-centric concept of assisting patients along the health care continuum. Students will develop skills necessary to effectively communicate and build relationships with patients within the complex systems they live in. Students will also learn how to evaluate and locate health care resources and support systems in relation to an individual's health. Consideration of varying stages of care, social determinants that impact physical health, and reducing disparities in access and treatment will be reviewed. Barriers to care, problem solving, and managing information and resources will also be discussed.

### **HCPS 4000 - Health Care Operations**

**Credits:** 3

**Prerequisite(s):** HCM 3150

**Description:** Students in this course will be introduced to the fundamental elements of operating a health care organization. Basic concepts of human resources management, finance and budgeting, billing and collection for patient care services, risk management, and monitoring of operational performance will be covered in the course.

### **HCPS 4010 - Evidence Based Health Care Delivery**

**Credits:** 3

**Prerequisite(s):** HCM 3150

**Description:** Students in this course will be introduced to evidence based health care delivery modalities. Students will learn about evolving models of care which incorporate current best practices supported by research and data. Understanding these evidence generating models is essential as the health care industry moves further into the free flow of information and shared knowledge. These health care delivery models are aimed at solving challenges related to coordination of patient care and reducing the time to integrate continuing analysis and synthesis of medical advancements.

## **History**

### **HIS 1005 - Ancient Civilizations**

**Credits:** 3

**Description:** This course introduces students to the development of ancient civilizations from a broad, comparative framework. These civilizations are studied from religious, economic, intellectual, political, cultural, and social perspectives.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** ANT 1650

### **HIS 1030 - World History to 1500**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course introduces students to the world's civilizations and their development before 1500 from a broad, comparative framework. These civilizations are studied from religious, economic, intellectual, political, cultural, and social perspectives.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1035 - The Medieval World**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course introduces students to the world's civilizations from the period of 400 to 1400. The course emphasizes the connections and continuities of the medieval period of world history from a broad comparative framework. Civilizations are studied from religious, economic, intellectual, political, cultural, and social perspectives.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1040 - World History since 1500**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course provides an introduction to important theories, concepts, methods and content for understanding world history since 1500. Among others, it explores social, cultural, religious, economic, and political themes.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HON 1040

### **HIS 1045 - Europe, Renaissance to the Present**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course examines the political, cultural, economic, social, and intellectual history of Europe from the Renaissance to the Contemporary era. Students will investigate diverse topics such as the

influence of politics and economics on Renaissance Art, the effect of religion on the nature of early modern warfare, how the Industrial Revolution altered every day life, and the impact of World War I on contemporary European politics.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1150 - Multicultural America**

**Credits:** 3

**Description:** This course surveys the history of the United States with a particular focus on the development and meanings of race and ethnicity. This includes an exploration of the political, social, economic, and cultural experiences of African Americans, Latinos, Asian Americans, Native Americans, and some first generation immigrants from Europe. Students explore long-term changes and developments from the fifteenth century to the present.

**General Studies:** Historical

**Guaranteed Transfer:** GT-HI1

**University Requirement(s):** Multicultural

### **HIS 1210 - American History to 1865**

**Credits:** 3

**Description:** This is an introductory course in the history of the American peoples and the development of the United States through the Civil War. Students explore Native America, European colonizers, African slavery, and the Atlantic World of the 1600s and 1700s. The American Revolution, the creation of the U.S. Constitution, and the divisions and outcome of the Civil War feature prominently. Instructors organize the course with political, economic, social, and global perspectives to highlight the experiences of diverse peoples.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HON 1211

### **HIS 1220 - American History since 1865**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course covers the background to the present-day United States beginning with the Civil War and culminating with recent times. It analyzes cultural, social, economic and technological change. Topics addressed include immigration, industrialism, emergence of the U.S. as a world power, Progressivism, the First World War, the Great Depression, World War II, and the Cold War and its aftermath.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HON 1221

### **HIS 1250 - China and East Asia**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course covers the history of China and East Asia since the eighteenth century, emphasizing change and continuity in the region's politics, economies, and cultures. The course treats the traditional order in East Asia, its erosion by internal and external challenges, the struggle of East Asian people to adjust to a new world order, and their effort to rebuild after World War II. The contribution of East Asian immigrants to American civilization will also be considered.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1270 - India and South Asia**

**Credits:** 3

**Description:** This course provides an overview of South Asian history from the ancient Indus Valley settlements through the emergence of modern nation-states like India, Pakistan, Bangladesh and Sri Lanka. It includes the rise and fall of empires, the interplay of multiple religions, and the region's vast cultural history.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1300 - Introduction to Latin American History**

**Credits:** 3

**Description:** This course introduces students to the history of Latin America. It explores relationships among indigenous peoples, Europeans and Africans; the responses of each group to the dynamics of colonial contact; the development and maturation of colonial society; and the ways that Latin Americans have sought to construct stable nation-states and dynamic economies since gaining their independence. Although the course focuses primarily on broader social, economic and political transformations of the last 500 years, it also pays considerable attention to the ways these changes shaped everyday life, and the way people made sense of those changes.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1600 - Women in World History**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course will explore the role, experiences, and contributions of women in the family, the economy, the culture, the religions and the political structure from a broad, comparative framework. Students will become familiar with how women's history modifies the traditional interpretations of historical events.

*Note: Credit will be granted for only one prefix: HIS or GWS.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** GWS 1600

### **HIS 1700 - Nature and Society**

**Credits:** 3

**Description:** This course surveys the past using a "Big History" approach to time scales, beginning with the universe's origins and ending with the current global environmental crisis. Students explore how humans have shaped the environment and how the environment has shaped human history. This course employs a world systems approach to help students analyze how humans have responded to environmental changes over time and consider how history can inform us about present environmental challenges.

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

### **HIS 1940 - Survey of African History**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course surveys the major developments on the African continent from ancient times to the modern period. It focuses on political, social, economic, legal, historical, and cultural developments in African civilizations from ancient Egypt to the present.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** AAS 1130

### **HIS 2090 - The Black Lives Matter Movement and the Origins of Modern Black Protest**

**Credits:** 3

**Description:** This course applies sociological concepts and historical themes to an analysis of the origins and nature of the Black Lives Matter (BLM) movement. The course begins with brief coverage of black resistance in the colonial period to the Abolitionist Movement but provides an in-depth exploration of modern black protest in the post-World War II civil rights decades and continues into the late 20th century with high-profile instances of police brutality. The remainder of the course follows a chronology, beginning in 2013 with the creation of #BlackLivesMatter and the growth of a new era of black protest. In addition to high-profile incidences of police brutality, attention is given to movement dynamics as shaped by Internet social media platforms and cable news. The course also addresses the #SayHerName movement, which has highlighted police violence against black women. Issues concerning misogynoir are also covered, including black radical feminist critiques of black male patriarchy, and debates within the black community about the movement's focus. Finally, students will come away with a broad understanding of what systemic institutionalized racism is, as distinguished from incidences of racial violence by individual acts of terrorism or white supremacist terrorist organizations.

*Note: The course is crosslisted. Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 2090, PSC 2090, SOC 2090

### **HIS 3000 - Historical Writing and Thinking**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or equivalent and fulfillment of the

General Studies Historical Requirement.

**Description:** This course hones writing and thinking skills essential to the study of history. It develops abilities to find relevant material, critically read historical literature, analyze primary sources, and persuasively make historical arguments. The course is recommended for History majors and minors and open to those students who seek to enhance their critical writing and thinking skills.

**General Studies:** Written Communication

**Guaranteed Transfer:** GT-CO3

### **HIS 3001 - Magic in the British Isles, 1500-1700 (HWT)**

**Credits:** 3

**Description:** Alchemy, sorcerers, ghosts, and witches in early modern England, Scotland, Ireland, and Wales provide the content for this Historical Writing and Thinking course. Its primary purpose is to hone students' abilities to find relevant material, critically read historical literature, analyze primary sources, and persuasively relate historical arguments.

### **HIS 3120 - Medieval History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the history and culture of Europe from circa 325 to 1450, emphasizing important personalities and significant movements beginning with the transformation of the Roman Empire and ending with the opening of the Renaissance. Students will examine the historical record and surviving influences from the medieval past and become familiar with the key developments of this era.

### **HIS 3131 - Ancient Greece**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course will treat the history of the Greek world from the late Neolithic period to the rise of Macedonia. The Minoan and Mycenaean civilizations, the growth of the city-states such as Sparta and the development of democratic institutions at Athens, the Peloponnesian Wars and the rise of the kingdom of Macedonia will be covered.

*Note: Students may not receive credit for both HIS 3031 and HIS 3131.*

### **HIS 3132 - Age of Alexander and the Ancient Mediterranean World**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or permission of instructor

**Description:** This course explores the storied history of the collapse of Classical Greece, the exploits of Alexander the Great, and the imperial trajectories of his successor states. These transformations are examined through conflict, interaction, and connectivity in the

ancient Mediterranean world and southwest Asia. Central themes of this course include economic, social, and technological developments that transformed Greek culture in one way or another with an emphasis on empires, trading networks, and cross-cultural experiences. The course includes analysis of the legacies of this ancient civilization within the region and beyond.

### **HIS 3140 - Renaissance and Reformation**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** Europe in the fifteenth and sixteenth centuries (1400-1600) underwent cataclysmic change. Spurred on by inventions such as the printing press, the compass, and gunpowder, Europeans recovered the learning of the ancients, created masterful works of art and literature, colonized the new world, and instituted centralized governments. These same factors, however, split Europe apart as scholars and the laity, influenced in part by Renaissance ideas, declared Roman Catholic dogma false. This course will try to come to terms with such monumental changes and to see how such changes affected intellectual ideas, economic progress, government, war, and daily life.

### **HIS 3160 - Rome and the Caesars**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course surveys the history of Rome from its founding in the eighth century B.C.E. to its demise in the sixth century C.E. The course emphasizes Rome's rise to power and the transformations that led to the decline of the empire.

*Note: Students may not receive credit for both HIS 3060 and HIS 3160.*

### **HIS 3170 - Early Christianity to 500 C.E.**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** The course covers the development of Christianity from the time of Christ to 500 C.E. It considers the complex political and social context in which Christianity developed and treats the interaction between Christianity and the wider society.

*Note: Students may not receive credit for both HIS 3070 and HIS 3170.*

### **HIS 3200 - Early Modern Europe, 1648-1789**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers European history from 1648 to

1789, including political, cultural and religious aspects of that history.

### **HIS 3210 - French Revolution and Napoleon 1715-1815**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** Students examine the French Revolution in detail, after studying causes. Also considered are the effects of the Revolution and Napoleon upon France and the major countries of Europe.

### **HIS 3230 - Nineteenth-Century Europe**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course is a chronological survey of the century of progress culminating in the tragic climax of the outbreak of World War I. Such topics as the industrial revolution, the consolidation of the nation-state, rise of the masses, liberalism, socialism, nationalism and imperialism are covered.

### **HIS 3245 - Russian History from Princes to Putin**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course explores the history of Russia from the Kievan Rus' to the creation of the Russian Federation. Course themes include state building and political legitimation, economic development, the role of religion in public life, ideologies in flux, elite and popular culture, and Russia's position within global geopolitics.

### **HIS 3260 - Twentieth-Century Europe, 1914-2000**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers Europe during and after World War I, the period leading up to World War II as well as World War II and its aftermath.

### **HIS 3270 - Issues in European History: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course is an examination of various problems in European history. The topics will vary to accommodate student needs and interests.

*Note: This course may be repeated as the course title changes for a maximum of 9 credits.*

### **HIS 3290 - Nazi Germany**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This detailed survey examines the origins of Hitler's regime within the context of twentieth century Germany and Nazi domestic and foreign policies to 1939. World War II, given thorough coverage, is viewed as the logical culmination of Hitler's ideology and his ability to use the German nation as a means to achieve his ends.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**Cross Listed Course(s):** HON 3290

### **HIS 3320 - Britain since 1714**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This interdisciplinary course traces the history of Great Britain from the eighteenth century to the present day. It examines political, economic, social and cultural developments; the idea of "Britishness"; the role of the British Empire in this history; the impact of the world wars on Britain; and Britain's relationship to the rest of Europe, among other topics.

### **HIS 3330 - Medieval England**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines the politics, society, and religion of medieval England. It investigates topics such as chivalry and military tactics, the relationship between the church and state, daily life in the Middle Ages, and the struggle among cities, barons and monarchs.

### **HIS 3331 - Tudor and Stuart England**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** In the sixteenth and seventeenth centuries the English witnessed a break with the Roman Catholic Church, the execution of a king, the exploration of the Americas, as well as tumultuous change in the realms of science, economics, and culture. This course analyzes how and why such changes occurred and their effects on the English polity and society.

### **HIS 3340 - Ireland and the Irish**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This is a survey course in Irish history and culture from the earliest period of Celtic civilization up to the contemporary period. It explores the various developments in Irish history over the past 3,000 years and attempts to identify those trends that were uniquely Irish and those that were a part of the overall evolution of European civilization.

### **HIS 3360 - Women in European History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course provides an historical analysis of the role and contribution made by women in the development of Western Civilization from Neolithic times to the present.

*Note: Credit will be granted for only one prefix: HIS or GWS.*

**Cross Listed Course(s):** GWS 3360

### **HIS 3400 - Issues in American History: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines various topics in American history. The topics will vary to accommodate student needs and interests.

*Note: This course may be repeated for credit as the course title changes for a maximum of 9 credits.*

### **HIS 3410 - American Colonial History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course focuses on a rich variety of themes in colonial American history ranging from exploration, planting colonies, political growth, social mobility, environmental and agricultural history to 1763.

### **HIS 3420 - American West**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course treats the American West as a region bounded in the east by the Missouri River and in the west by the Pacific Ocean. The course begins with a survey of Native peoples who made their homes in this place for thousands of years. Next, students will encounter the complicated tangle of myth and history as they study mineral rushes, fur trades, mountain men, outlaws,

massacres, railroads, cattle barons, vigilantism, and wars for control. The course concludes with a look at the "modern" west. From Silicon Valley in California to Silicon Mountain in Colorado, students will study dam building, water management, urbanization, sustainability, environmentalism, the military industrial complex, and ponder the future of this region.

**University Requirement(s):** Multicultural

### **HIS 3425 - Colorado and the Nation**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course explores the history and geography of Colorado with primary emphasis on the period since 1800. It considers interactions among Native Americans, Hispanic communities, and Euro American explorers, trappers, and settlers. Students also examine miner and pioneer life; twentieth century developments; and aspects of the state's social, economic, and political history that illustrate and contrast with broader national trends.

### **HIS 3426 - Colorado Water and the American West**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course invites students to study the rich history of water in Colorado and the American West. From the beginning, humans in the American West have had to contend with arid environments. This course begins with a look at how the Ancestral Pueblo, and other Native communities used water. Next the course treats Hispanic water management practices in the West, before finally focusing on the American approach to water management in the region. With Colorado as a focal point, the class will explore the fascinating tangle of federal, state, and local interests that led to one of the greatest hydraulic societies in the history of the world.

**University Requirement(s):** Multicultural

### **HIS 3427 - History of Denver**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers Denver and its major contiguous suburbs from its prehistory to the early 21st century with emphasis on the 1858-1990 period. Social, economic, and political history are treated as are the major events in the city's history.

*Note: Students may not receive credit for both HIS 3010 and HIS 3427.*

### **HIS 3430 - American Revolution and Early National Period, 1763-1848**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines politics, society, and economics during the Revolutionary and Early National periods. Major topics will include American society on the eve of the Revolution, the causes of the Revolution, military and diplomatic aspects of the eras, the development of political parties, reform movements, the changing status of Native and African Americans, and the position of women.

#### **HIS 3440 - American Slavery**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor.

**Description:** This class will explore the origins of slavery in the early modern Atlantic world and trace its history until the age of emancipation. Although the primary focus will be on African slavery in British North America and the United States, the course will integrate the Atlantic and imperial contexts and include comparative units on slavery in other empires, as well as enslavement of Native Americans. Students will analyze the political and economic consequences of slavery, and they will examine the slave cultures themselves, including religion, resistance, and family life.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3440

#### **HIS 3450 - Food in U.S. History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is cross listed with HIS prefix, or permission of instructor

**Description:** This course uses food as a lens to explore the social, cultural, economic, and political history of the United States. The class examines the history of agriculture, food production, eating, and taste from the first hunters and gatherers in North America to the age of the food blogger. The course discusses the origins of agriculture, changes to farming techniques, the industrialization of food, debates about nutrition, the green revolution in the United States and abroad, food safety, food fads, food and gender, food and race/ethnicity, poverty and hunger, and the ongoing American concerns with obesity and thinness. This class investigates the contributions of various racial and ethnic groups to American food culture.

**University Requirement(s):** Multicultural

#### **HIS 3463 - History of American Education**

**Credits:** 3

**Prerequisite(s):** ENG 1010

**Description:** Who controls what children should learn, and how they should learn it? How are schools supposed to train students for the careers of the future while also preparing them to contribute to civic life? Is it the schools' responsibility to promote patriotism? Students in this course explore these questions by examining American education from the colonial era to the present. We pay particular

attention to the development of rural and urban schools; regional differences in education; the experiences of Native Americans, Black Americans, immigrants, girls and women, and the disabled; and competing philosophies and reform movements. Whether or not students plan to work in schools, they can take a close look at the most widely shared and misunderstood institutions in American public life.

#### **HIS 3490 - Native American History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course begins with a brief survey of North American Native peoples prior to the arrival of European colonists. It next covers the period of colonial exchanges between Native Americans and the Spanish, French, and English. The course then focuses on the shared history between Native Americans and the United States. The curriculum will bring students through the 20th century and provide them an opportunity to consider the dense tangle between history and myth, as they study events like Cherokee removal, Little Big Horn, Wounded Knee, the rise of Native sovereignty, Indian gaming, and legal disputes over sacred lands.

*Note: Students may not receive credit for both HIS 3090 and HIS 3490. Credit will be granted for only one prefix: HIS or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3491

#### **HIS 3520 - Civil War and Reconstruction**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course traces the background of the Civil War, the war itself, and the aftermath of the war. It also familiarizes students with Civil War and Reconstruction historiography.

#### **HIS 3530 - American Baseball History**

**Credits:** 3

**Description:** The purpose of this course is to examine American baseball as a cultural reflection and catalyst in American life since the 1840s. Drawing on primary and secondary sources, as well as guest lecturers the course will illustrate the place of the sport within American culture.

#### **HIS 3540 - Emergence of Modern U.S., 1877-1920**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course traces the rise of industrialism; immigration and its impact; the urbanization of the nation; the westward movement; the organization of laborers and farmers; the growth of imperialism; and the reform spirit with attendant social, political, and

constitutional adjustments. It also treats World War I and the War's immediate aftermath.

### **HIS 3560 - Chicana/o History, 1836 to the Present**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course concentrates on the era from the Texas Revolt in 1836 through the Contemporary era of the twenty-first century. This historical survey provides an overview of the Mexican population born and living in the Southwestern United States. Students will study complex racial, class, gender, regional, and generational identity issues affecting the intra-ethnic relations among Chicanas/os in the multicultural U.S. Special attention will be paid to Chicanas/os in Colorado history.

*Note: Credit will be granted for only one prefix: CHS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 3020

### **HIS 3570 - African American History I**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the early history of African Americans in the United States, beginning with their ancestry in West and West-Central Africa and culminating with the Civil War. It analyzes their cultural, social, economic, and political transformation in the colonial and national history of the United States. Topics include the Atlantic Slave Trade, colonial identity, plantation slavery, slave communities, resistance, the Constitution and race, demographics of freedom, abolitionism, the Civil War and its aftermath.

*Note: Credit will be granted for only one prefix: AAS, HIS, or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3570, HON 3570

### **HIS 3580 - African American History II**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course focuses on the collective experience of African Americans in American history, thought, and culture from Reconstruction to the present. It addresses the process of freedom and citizenship through an examination of the major political, economic, and social themes of the nineteenth and twentieth centuries. Particular attention will be paid to the agency of African Americans in community-building, migration, protest, and patriotism.

*Note: Credit will be granted for only one prefix: AAS or HIS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3580

### **HIS 3590 - American Immigration History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course concentrates on the historical movement of people into the United States. It considers the factors which caused them to migrate, their adjustment to their new homes, and the interactions between them and other Americans. Students will explore the ethnic backgrounds, customs, and identities of diverse groups including Mexican and Asian Americans among others.

**University Requirement(s):** Multicultural

### **HIS 3625 - American Environmental History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course will examine the interactions between humans and plants and animals in North America from pre-Columbian times to the present, as well as U.S. attitudes toward landscapes, cities, and natural phenomena.

*Note: Students may not receive credit for both HIS 3880 and HIS 3625.*

### **HIS 3640 - U.S. World War I through World War II**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the United States between 1912 and 1945 including politics, foreign policy, society, technology, economics, and culture. Among topics covered are the U.S. in World Wars I and II, culture, society and politics in the 1920s, the Great Depression, and the New Deal.

### **HIS 3650 - U.S. Women's History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course emphasizes women's changing roles in American history. Students examine women's status, image and legal rights and how they evolved due to social and economic changes and as a result of activism of reformers and writers. Students study the nuances and differences between and among American women, assessing the intersectional relationship between gender, race, class, and sexuality. The course stresses both the changes and the continuities over the last 300 years.

*Note: Credit will be granted for only one prefix: GWS or HIS.*

**Cross Listed Course(s):** GWS 3651

### **HIS 3655 - Women of the American West**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade

of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course will provide students with an overview of the ways in which women of many cultures shaped the North American West. Women developed the West as a home place, borderland, and frontier. Course themes that will be explored in lectures, discussion, and assignments include gender, masculinity, class, race, ethnicity, sexuality, labor, and environment.

*Note: Credit will be granted for only one prefix: HIS or GWS.*

**Cross Listed Course(s):** GWS 3655

### **HIS 3660 - Recent U.S. 1945-1990s**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course treats the United States from 1945 to the 1990s concentrating on the Cold War, the civil rights movement, the decline of political parties, and the nature of the centralized state.

### **HIS 3670 - U.S. Foreign Relations: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course is an examination of various issues, problems, or areas in American foreign policy from colonial origins to the recent past. The topics will vary to accommodate student needs and interests.

*Note: This course may be repeated under different topics for a maximum of 9 credits.*

### **HIS 3675 - The American Presidency**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course surveys the history and structure of the American presidency as an institution and probes the lives and administrations of individual presidents. Significant political themes and topics pertaining to the White House's historical political climate are likewise explored.

*Note: Students may not receive credit for both HIS 3370 and HIS 3675.*

### **HIS 3681 - Film as Social History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course will examine how historical films can build national consensus--or create and perpetuate national myths--and how they often say more about the time they were made than about the time they portray.

*Note: Students may not receive credit for both HIS 3861 and HIS 3681.*

### **HIS 3683 - American Religious History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This class will explore American religious practice, community, and culture from before colonization to the present. It will consider how Americans have both retained and adapted traditional faiths in new circumstances, and it will examine how the American faithful have articulated their spiritual identities and (sometimes) imposed these identities on others. Finally, it will explore how American religious leaders and followers have negotiated the meanings of ritual and belief, often creating new traditions that are firmly rooted in American history and society.

**University Requirement(s):** Multicultural

### **HIS 3690 - American Military History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course is a study of American military history from the wars of the colonial period through Vietnam. It considers battles, strategy, and organization.

### **HIS 3700 - Modern China**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with one, or permission of instructor

**Description:** This course covers the history of China since 1800, with emphasis on social, cultural, economic, and political developments. The course will discuss the traditional order in China, its breakdown both by internal and external challenges, and the Chinese people's struggle to adjust to the new world order imposed by foreign powers. It will also explore the efforts of the Chinese to remake their country through revolution.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**Cross Listed Course(s):** HON 3700

### **HIS 3705 - 100,000 Years of War**

**Credits:** 3

**Description:** This course uses a broad comparative framework to introduce students to the economic, intellectual, political, and cultural impact that warfare has had from prehistory to modern times. One of every 150 people die violently in the world today. One of every 100 people died in this fashion a century ago, and one of every fifty people approximately 1,000 years ago. An astonishing one out of ten people died violently 10,000 years ago. Students will explore this contingent shift away from violence over time.

*Note: Credit will be granted for only one prefix: ANT or HIS.*

**General Studies:** Social and Behavioral Sciences, Global Diversity  
**Cross Listed Course(s):** ANT 3650

### **HIS 3706 - Biblical Archaeology**

**Credits:** 3

**Description:** This course examines important archaeological discoveries relevant to biblical historical contexts and interpretation. Students critically analyze both material and literary evidence, as well as historic and contemporary scholarship, to understand the benefits and challenges of correlating ancient literary sources, biblical narratives, and the archaeological record.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Global Diversity, Social and Behavioral Sciences  
**Cross Listed Course(s):** ANT 3640

### **HIS 3707 - Archaeology of Ancient Egypt**

**Credits:** 3

**Description:** This course examines a set of timeless historical and anthropological issues as experienced by ancient Egyptians. Students critically analyze the classic Egyptian discoveries and review the latest archaeological research.

**Cross Listed Course(s):** ANT 3630

### **HIS 3711 - Caribbean History and Culture**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines the evolution of Caribbean societies from the consolidation of slavery in the seventeenth century to the emergence of independent multi-ethnic nations in the twentieth century, and emphasizes the central role of the Caribbean in the Atlantic world.

*Note: Credit will be granted for only one prefix: AAS or HIS. Students cannot receive credit for both HIS 3811 and HIS 3711.*

**Cross Listed Course(s):** AAS 3610

### **HIS 3715 - Food in World History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent; completion of the General Studies Historical course requirement or permission of instructor.

**Description:** This course highlights the significance of food in society. Students examine food habits from the earliest hunter-gatherers to modern consumers of fast food. They consider the origins of agriculture, famine, the evolution of world cuisines and civilizations, the international exchange and spread of foods and food technologies, and the effects of the global economy on food, production, diets and health. In the process, students consider the role food plays in many aspects of human history, including evolution, religion, politics, class, family, national identity, technology and the economy. This course uses multiple disciplines and perspectives to explore eating habits and how they change over time.

### **HIS 3720 - Themes in World History: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This seminar explores the field of World history from theoretical, conceptual, and content approaches. This course is aimed for advanced students in World history and for students interested in teaching World history at the elementary and secondary levels.

### **HIS 3725 - The World since 1900**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course explores the major historical developments of the 20th century, emphasizing their social, economic, cultural, and political dimensions.

### **HIS 3734 - World War I and the Making of the Modern World**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** The First World War was many things: the "war to end all wars," the "Great War," the start of the "short" twentieth century, the dawn of the "age of catastrophe." By the time the war ended, "Western civilization" was destroyed and new global patterns had emerged. From genocides to the rise of Communism and worldwide independence movements, the consequences of the war continue to shape the twenty-first century. This course examines the origins of the war in the "long" nineteenth century, the impact of total war on societies across the world, the Treaty of Versailles and the expectations of peace, and creation of an uncertain postwar world.

### **HIS 3735 - World War II, 1939-1948**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor.

**Description:** This course provides a detailed overview of the Second World War from multiple perspectives, including military, political, economic, social and cultural history. Special attention focuses on close reading of multiple personal accounts of the war from a variety of perspectives.

*Note: Students may not receive credit for both HIS 3735 and HIS 4650.*

### **HIS 3740 - Modern Japan**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the history of Japan since the 1850s, with emphasis on the nation's social, economic, and political development. The course will discuss the traditional order in Japan, its modification over time, the nation's struggle to adjust to the new world order imposed by foreign powers, its defeat in World War II, and postwar efforts to rebuild.

### **HIS 3745 - History of Meso-America: Pre-Columbian and Colonial Periods**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines the history of Meso-America and its relationship to the American Southwest from pre-Columbian times to 1836. Particular attention will be paid to the dynamism of indigenous peoples and the hybrid nature of the region's culture after the Spanish conquest.

*Note: Credit will be granted for only one prefix: CHS or HIS.*

**Cross Listed Course(s):** CHS 3000

### **HIS 3746 - History of Modern Mexico**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course introduces students to major themes in the social and political history of Mexico from independence in the early nineteenth century to the present. The course stresses the importance of social movements in the making of modern Mexico, as well as the influence of large-scale historical transformations on everyday life. This course emphasizes historical thinking and analysis, including the critical evaluation of diverse sources and the ability to integrate their insights to answer historical questions.

### **HIS 3747 - Latin American Revolutions**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines the origins, development and continuing influence of twentieth century Latin American revolutions, with a focus on placing these struggles in comparative historical context. This course explores various approaches to revolution and the general role of left political formations in Latin America in an attempt to grasp both the promises and limitations of these important movements for social change.

### **HIS 3750 - India and South Asia since 1500**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** The course covers religious and linguistic diversity in

India; the nature of the Indian state; comparative colonial regimes; the complexity of responses to colonialism; and ideas of gender in colonial and modern South Asia. Students gain a more developed understanding of the political, social and economic geography of South Asia, as well as some familiarity with several South Asian religions, including Hinduism, Islam, Buddhism and Sikhism.

### **HIS 3760 - Modern Middle East**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course explores the history of the Middle East and North Africa, with an emphasis on the nineteenth and twentieth centuries. Topics addressed include: the geography and resources of the region; political control and governance; warfare and terrorism; the Cold War; the geopolitics of oil; Zionism and the Arab-Israeli conflict; and the continuing influence of Islam on state and society.

### **HIS 3770 - World of Islam**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course surveys Islamic civilization from its origins in the Middle East through its expansion into Asia, sub-Saharan Africa, Europe, and the Americas from the seventh century to the present. It covers the political and military history of the Islamic Empire, as well as its cultural, religious, and scientific achievements. Considerable attention is also paid to the relationship between Islamic societies and states and their European and American counterparts.

### **HIS 3780 - Issues in World History: Variable Topics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course examines various topics in world history. The topics will vary to accommodate student needs and interests.

*Note: This course may be repeated for credit as the course title changes for a maximum of 9 credits.*

### **HIS 3781 - Holocaust and Genocide: Memory and Method**

**Credits:** 3

**Description:** This course explores the origins and implementation of the Holocaust and other genocides in world history. Students place the Holocaust and other cases of genocide in comparative historical contexts. Major themes for discussion are the origins of prejudice, hatred, dehumanizing policies, the intersection of law and recognition, and the international community's role in response to acts of genocide. Students will also learn oral history methodologies to understand the importance of survival testimony for documenting genocide.

## **HIS 3782 - History of Human Rights**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course contextualizes our moral choices as part of a longer story of humanity. We explore the topic of human rights as both an intellectual history and as praxis. The course begins with the debate over the origins of human rights as a concept and a movement. Then it examines the evolution of "inalienable rights," the parallel rise of democracy and entrenchment of slavery, the growth of humanitarian movements since the 19th century, and the challenges of the 20th century for the international human rights movement.

*Note: Some sections of this course may be taught as Service Learning.*

## **HIS 3785 - Science and Technology in World History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course explores the role of science and technology in World history. Themes will include the relationship between the divine and empirical understandings of the natural world, the production of scientific knowledge and its practical application, the influence of culture on the production of scientific and technological knowledge, and the globalization of scientific and technological authority and practices. The goal of the course is to learn about the past from the perspective of ideas about nature within diverse social and cultural contexts while focusing on how this past has shaped our own understanding of nature and our place in it.

**General Studies:** Social and Behavioral Sciences, Global Diversity

## **HIS 3790 - The United States and Vietnam**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course traces the 1960s conflict in Vietnam to its roots in nineteenth century colonialism, conflicting interests in World War II and the demise of French power in the 1950s. It details U.S. involvement and U.S. strategy from the 1950s until the defeat of South Vietnam in 1975. Attention is also paid to the U.S. home front and to the effects of the conflict.

## **HIS 3830 - The Mexican Revolution**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or Permission of instructor

**Description:** This course traces the social, political, and economic forces that contributed to the Mexican Revolution (1910-1920). Furthermore, it provides a critical analysis of how leaders, women, the Mexican masses and the United States influenced revolutionary events.

*Note: Credit will be granted for only one prefix: HIS or CHS.*

**Cross Listed Course(s):** CHS 3010

## **HIS 3890 - Readings in History: Variable Topics**

**Credits:** 1-2

**Description:** In this course, a student will read extensively in a selected area. Critiques of the works read will be submitted to the professor directing the reading.

*Note: This course may be repeated for credit as the title changes. Variable Credit.*

## **HIS 3920 - Hip-Hop Culture and Rap Music**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** This course seeks to examine the long-standing cultural warfare that exists among core elements of Hip-Hop culture and the impact such challenges have on gender and social identities. Students will think critically about Hip-Hop music beyond the scope of entertainment through the examination of literature, films, and music that provide interdisciplinary discourse on Hip-Hop in our society.

**Cross Listed Course(s):** AAS 3920, MUS 3895, SOC 3250

## **HIS 3980 - Internship in History**

**Credits:** 1-15

**Prerequisite(s):** Major in History; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

## **HIS 3990 - History Pedagogy Laboratory**

**Credits:** 1

**Prerequisite(s):** Completion of 9 prior credits of HIS course work and permission of instructor

**Corequisite(s):** Enrollment in a 3xxx-level HIS course with the same instructor

**Description:** This course enables students to consult about course design, teaching and assessment strategies with a History instructor of an upper-division History class as the semester unfolds. It is designed to offer elementary and secondary licensure students pedagogy for History teaching. Students must simultaneously enroll in the same History instructor's section of an upper-division course.

*Note: This course may be repeated two times.*

## **HIS 3991 - Undergraduate Teaching Assistant**

**Credits:** 1-3

**Prerequisite(s):** 9 credit hours of coursework with HIS prefix with a grade of B or better

**Description:** This course provides students interested in history to gain on-the-job training in historical teaching methods and practices. Students learn pedagogical theory and strategies and the use of educational technology in a variety of course formats. Under close faculty supervision, students assist instructors in course teaching. In addition to attending class meetings of the assigned course, students meet regularly with faculty to discuss class goals, teaching and research strategies, and assistantship responsibilities specific to supervising instructor.

*Note: (Variable credit; this course is repeatable for up to a maximum of 6 credit hours)*

### **HIS 4010 - Methods of Teaching Social Science: Secondary School**

**Credits:** 3

**Prerequisite(s):** EDU 2111 or EDS 3130 or permission of instructor

**Description:** This course explores disciplinary strategies for teaching Social Studies subjects and analyzes their effectiveness. Students consider the political, social, and historical contexts for Social Studies teaching. The course also provides opportunities for practical application and critical review of theories, frameworks, and assessment techniques for teaching these disciplines in the secondary classroom in light of Colorado Department of Education Academic Standards and Teacher Quality Standards.

HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools is a recommended co-requisite course for students seeking Secondary Social Studies licensure.

**University Requirement(s):** Senior Experience

### **HIS 4020 - Field Experience in Teaching Social Studies in Secondary Schools**

**Credits:** 1

**Prerequisite(s):** EDS 3140

**Corequisite(s):** HIS 4010

**Description:** This field-based course provides opportunities to develop teacher candidates' professional and pedagogical skills in a Social Studies classroom. In coordination with the classroom teacher, teacher candidates will design and implement content lessons, use content strategies to improve both information acquisition and literacy skills, and adjust instruction for students with diverse needs, including Culturally and Linguistically Diverse backgrounds. Course assignments and evaluations are designed to help teacher candidates become reflective practitioners.

HIS 4010 Methods of Teaching Social Science is recommended as a co-requisite course.

*Note: Credit will be granted for only one prefix: GEG or HIS.*

**Cross Listed Course(s):** GEG 4020

### **HIS 4820 - Senior Seminar**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or equivalent with a grade of D or better and at least nine upper-division hours in history or in courses crosslisted with history, or permission of instructor

**Description:** This course refines students' knowledge of a historiography and their skills in the research and writing of history. As a culmination of the major, it asks students to think more analytically and extensively about a particular historical topic. Consult the instructor for specifics about the topic.

**University Requirement(s):** Senior Experience

## **Honors**

### **HON 1000 - Introduction to Music**

**Credits:** 3

**Description:** In this course, students investigate the function, structure, style and genre classifications, and aesthetic interpretations of a diverse variety of musical traditions. The students develop and employ a vocabulary for musical description and listen to many different traditions of musical expression. This course is intended for non-music majors.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** MUS 1000

### **HON 1001 - Introductory Psychology**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests

**Description:** This course presents basic concepts, principles, and methods involved in the scientific study and understanding of human behavior. Attention is given to organic bases of human and other animal behavior with emphasis on perception, learning, motivation, maturation, physical and social adaptation, experimental techniques, individuality and personality, conflict and stress, adjustment and mental health, social behavior, and developmental processes.

*Note: Required course for all psychology majors and minors. Credit will be granted for only one prefix: HON or PSY.*

**Cross Listed Course(s):** PSY 1001

### **HON 1003 - Introduction to Chicana/o Studies**

**Credits:** 3

**Description:** This course introduces students to the broad range of the interdisciplinary field of Chicana/o Studies. The course covers the major historical moments beginning with an overview of Pre-Columbian civilizations in the Americas and Medieval Spain, which have led to the contemporary social location of Mexican-origin population within the United States. In addition, the course introduces students to the broad scope of Chicana/o cultural production in the creative arts such as visual, film, music and literature. Resources draw from various disciplines, including but not limited to: sociology, history, political science, anthropology, education, art and art history, women and gender studies, and religious studies.

*Note: Credit will be granted for only one prefix: CHS or HON.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural  
**Cross Listed Course(s):** CHS 1000

### HON 1011 - Introduction to Philosophy

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing preassessment placement tests and for the Honor's prefix, acceptance into the Honors program

**Description:** This is a first philosophy course designed to introduce students to basic philosophical issues, primarily in the areas of metaphysics (what there is) and epistemology (how we know). This course covers fundamental questions such as, for example: "Do humans possess free will or is everything a matter of causal necessity?" or "Is there a God or an afterlife?" Important cultural achievements, in the form of original and complete works, will be emphasized.

*Note: Credit will be granted for only one prefix: HON or PHI.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH3

**Cross Listed Course(s):** PHI 1010

### HON 1013 - Presentational Speaking

**Credits:** 3

**Description:** This course teaches students how to design and deliver effective, ethical presentations. The ability to adapt to different audiences and contexts - such as professional or public situations - is emphasized. The course provides instruction on and practice of organization, delivery and performance, technology, and research skills. Students also learn effective listening techniques and critical thinking skills. The course empowers students to become successful professional presenters and public speakers.

*Note: Credit will be granted for only one prefix: COMM or HON.*

*Sections of this course may be offered in-person, in hybrid format, or online.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** COMM 1010

### HON 1023 - Comparative Politics

**Credits:** 3

**Description:** This course examines political societies and explores the basic ideas, structures, and issues of modern political systems in a comparative context.

*Note: Credit will be granted for only one prefix: HON or PSC.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** PSC 1020

### HON 1040 - World History since 1500

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course provides an introduction to important theories, concepts, methods and content for understanding world history since 1500. Among others, it explores social, cultural,

religious, economic, and political themes.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical, Global Diversity

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1040

### HON 1041 - A Citizen's Guide to Economics

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading, writing, and mathematics placement tests.

**Description:** This course introduces students to basic economic concepts and reasoning. Course topics include market analysis, the role of the government in the economy, the monetary system, and international economics. A key feature of the course is the application of economic reasoning to real-world problems.

*Note: Credit will be granted for only one prefix: ECO or HON.*

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** ECO 1040

### HON 1080 - General Biology I

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing and mathematics pre-assessment placement tests

**Corequisite(s):** HON 1090

**Description:** This introductory course serves as the foundation for all other biology courses. Emphasis is placed on cellular and molecular biology, biochemical pathways, and genetics.

*Note: Credit will be granted for only one prefix: BIO or HON. A student must successfully pass both HON 1080 and HON 1090 to receive General Studies and GT-SC1 credit.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

**Cross Listed Course(s):** BIO 1080

### HON 1090 - General Biology Laboratory I

**Credits:** 1

**Prerequisite(s):** Minimum performance standard scores on reading, writing and mathematics pre-assessment placement tests

**Corequisite(s):** HON 1080

**Description:** This mandatory laboratory accompanies HON 1080. This course introduces biology laboratory techniques, specifically exploring the scientific method.

*Note: Credit will be granted for only one prefix: BIO or HON. A student must successfully pass both HON 1080 and HON 1090 to receive General Studies and GT-SC1 credit.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

**Cross Listed Course(s):** BIO 1090

### HON 1110 - College Algebra for Calculus

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics preassessment placement test.

**Description:** The topics covered include equations and inequalities, functions and graphs, exponents and logarithms, conic sections, linear systems, and the binomial theorem. Basic algebraic skills are essential as a prerequisite to this course. All sections integrate the use of a graphing calculator into the course.

*Note: Only one of MTH 1109, MTH 1110, MTH 1111 and MTH 1112 will count toward graduation. Credit will be granted for only one prefix: HON or MTH.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

**Cross Listed Course(s):** MTH 1110

### HON 1211 - American History to 1865

**Credits:** 3

**Description:** This is an introductory course in the history of the American peoples and the development of the United States through the Civil War. Students explore Native America, European colonizers, African slavery, and the Atlantic World of the 1600s and 1700s. The American Revolution, the creation of the U.S. Constitution, and the divisions and outcome of the Civil War feature prominently. Instructors organize the course with political, economic, social, and global perspectives to highlight the experiences of diverse peoples.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1210

### HON 1221 - American History since 1865

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessment placement tests

**Description:** This course covers the background to the present-day United States beginning with the Civil War and culminating with recent times. It analyzes cultural, social, economic and technological change. Topics addressed include immigration, industrialism, emergence of the U.S. as a world power, Progressivism, the First World War, the Great Depression, World War II, and the Cold War and its aftermath.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**General Studies:** Historical

**Guaranteed Transfer:** GT-HI1

**Cross Listed Course(s):** HIS 1220

### HON 1310 - Principles of Quality Assurance

**Credits:** 3

**Prerequisite(s):** Intermediate algebra or equivalent with a grade of "C" or better

**Description:** The course introduces the scope and function of quality assurance, including basic definitions, statistics, quality policy and objectives, manuals and procedures, concept of variation, inspection and sampling techniques, meteorology process control, methods and the elements of reliability. Current TQM and ISO 9000 standards are reviewed.

*Note: Credit will be granted for only one prefix: HON or MET.*

**Cross Listed Course(s):** MET 1310

### HON 1311 - Introduction to Cultural Anthropology

**Credits:** 3

**Description:** This course is an exploration of the diversity that defines human experience. Students learn about the field of anthropology and its approach to examining other cultures with a focus on holism and cultural relativism. Students are introduced to fieldwork methods in anthropology and the importance of participant-observation in cultural anthropology. Course content introduces students to various aspects of cultures across the globe, such as subsistence strategies, political organization, social identities and hierarchies, marriage, family and kinship systems, religious behavior, health, language, creative and artistic expressions, and issues of power in relation to colonialism, socio-economic discrimination, and global inequalities.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS3

**Cross Listed Course(s):** ANT 1310

### HON 1410 - Calculus I

**Credits:** 4

**Prerequisite(s):** Either MTH 1109 or MTH 1110 or MTH 1111, and MTH 1120, with grades of "C-" or better, or MTH 1400 with a grade of "C-" or better

**Description:** This is a first course in calculus for science and engineering. The topics covered include derivatives of polynomials, trigonometric, exponential and logarithmic functions, applications of the derivative, the definite integral, and the fundamental theorem of calculus. All sections of the course will make integrated use of the software package Mathematica and/or a graphing calculator.

*Note: Credit will be granted for only one prefix: HON or MTH.*

**Cross Listed Course(s):** MTH 1410

### HON 1450 - Media Literacy

**Credits:** 3

**Prerequisite(s):** ENG1020

**Description:** Students review basic Internet standards and refine electronic communication skills, using digital media and current online technologies. This course builds media literacy skills, including visual, information, and news literacies. Students analyze media messages using the frameworks of intent, audience, bias, ownership, human representation, production aesthetic, and historical context. Students examine human representation in the media through the lens of race, gender, physical ability, socio-economic status, and so forth. Media for advocacy and digital storytelling are also introduced to begin media production concepts and skills.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 1450

### HON 1500 - Art and Visual Literacy

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or permission of department

**Description:** This course is a general introduction to the tools and

methods used to analyze and interpret works of art in a variety of contexts. Students learn how to effectively communicate how visual forms work in conjunction with cultural beliefs both in the past and present. Analytical tools appropriate to the disciplines of art criticism and art history, including the use of research, are used by the student to support interpretations. A variety of artistic traditions, including materials and techniques from across the globe and throughout time, are introduced so that students are prepared to identify and interpret historical and contemporary examples of visual art and design. By developing an awareness of the relationship between visual forms and the messages they convey, students increase their ability to respond critically to their own increasingly complex, visual environment. This course is designed for the non-major and recommended for the General Studies requirement in Arts and Humanities.

*Note: This course is restricted to students who are not majoring in Art, Art Education, Communication Design, or Art History, Theory and Criticism. Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** ARTH 1500

### **HON 1501 - Dynamics of Health**

**Credits:** 3

**Description:** This course investigates contemporary health topics. Subjects surveyed include current biological, psychological, sociological, and cultural factors that influence health. Experiential learning encourages students to plan and adopt healthier behaviors.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** ITP 1500

### **HON 1600 - World Art I: Art Prior to 1400**

**Credits:** 3

**Prerequisite(s):** ENG 1010 or permission of department

**Description:** This course is an introduction to the discipline of art history and the tools used to analyze and interpret works of art within their cultural contexts. As the first part of a two-part survey, the course examines art, design and architecture from the prehistoric age through the 14th century throughout a variety of global cultures. Analytical tools appropriate to the disciplines of art history, theory and criticism, including the use of research, are used by the student to support interpretations. This course provides the introductory foundations in art history for students in art, art history, and communication design majors and is recommended for non-majors to meet the General Studies requirements in Arts and Humanities and/or Global Diversity.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** ARTH 1600

### **HON 1700 - World Art II: Art 1400-1900**

**Credits:** 3

**Prerequisite(s):** ENG 1010 and ARTH 1600; or permission of department

**Prerequisite(s) or Corequisite(s):** ENG 1020 recommended

**Description:** This course is an introduction to the discipline of art history and the tools used to analyze and interpret works of art within their cultural contexts. As the second part of a two-part survey, the course examines art, design and architecture from the 14th through the 19th centuries, paying particular attention to global cultural interactions and their impact on visual imagery. Analytical tools appropriate to the disciplines of art history, theory and criticism, including the use of research, are used by the student to support interpretations. This course provides the second of two foundation courses in art history for students in art, art history, and communication design majors and is recommended for non-majors to meet the General Studies requirements in Arts and Humanities and/or Global Diversity.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** ARTH 1700

### **HON 1710 - Fundamentals of Oral Communication**

**Credits:** 3

**Description:** This is an introductory course in the art and process of communicating with people in a variety of environments and contexts. This class provides students with insight and tools from communication research to analyze communication situations and develop effective, ethical messages appropriate to purpose, audience, context and medium. The course emphasizes developing basic communication skills in listening, assertive communication, self-analysis, presentations, and managing conflict.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** COMM 1100

### **HON 2010 - Principles of Macroeconomics**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and any 1000-level MTH course.

**Description:** This course offers an introductory analysis of the economy as a whole. Course topics include measuring economic performance and exploring the determinants of long-run economic growth. Students learn the role and impact of macroeconomic policies such as taxes, government spending, and actions taken by the Federal Reserve. This course applies macroeconomic principles and analysis to current events and problems as well as exploring the impact of the macroeconomy on the human experience.

*Note: Credit will be granted for only one prefix: ECO or HON.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** ECO 2010

### **HON 2011 - Foundations of Information Systems**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; and CIS/CSS 1010 with a grade of "C-" or better, or appropriate score on the Computer Information Systems computer literacy screening test.

**Description:** This course is an introduction to information systems from a business perspective. It introduces students to computer hardware and software, use of productivity tools and the Internet to solve business problems, and an introduction to fundamental and functional business information systems.

*Note: Credit will be granted for only one prefix: CIS or HON.*

**Cross Listed Course(s):** CIS 2010

### HON 2012 - Principles of Accounting I

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010; ENG 1020 or ENG 1021; and MTH 1310 or MTH 1110 or MTH 1400

**Description:** This course introduces students to the role of accounting in society. The course focuses on financial accounting and reporting as tools to aid external decision making, financial analysis, and interpretation.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 2010

### HON 2020 - Principles of Microeconomics

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and any 1000-level MTH course.

**Description:** This course offers an introductory analysis of economic decision making in a market system. The roles, actions, and interactions of consumers, firms, and the government are explored. Market failure and government failure are also considered. Microeconomic principles and analysis are applied to current events and problems and are used to explore human behavior.

*Note: Credit will be granted for only one prefix: ECO or HON.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** ECO 2020

### HON 2021 - Principles of Accounting II

**Credits:** 3

**Prerequisite(s):** ACC 2010 with a grade of "C-" or better; ENG 1020; Completion of General Studies requirements in Oral Communication and Quantitative Literacy

**Description:** This course introduces students to the role of managerial accounting information in business. The course focuses on cost controls, budgeting and preparing relevant financial information for decision making.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 2020

### HON 2040 - Introduction to Nutrition

**Credits:** 3

**Description:** This course is designed to provide students with an understanding of the fundamental concepts of human nutrition, including digestion, absorption, metabolism, and the function of nutrients as they relate to human health and disease.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

**Cross Listed Course(s):** NUT 2040

### HON 2101 - Reporting

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** This course allows students to refine the news-gathering, interviewing, and writing techniques that were learned in JRN 1100 by introducing students to beat reporting. Students spend time perfecting their skills in a writing laboratory. Students are required to cover events outside of class.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 2100

### HON 2210 - Legal Environment of Business I

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; and completion of General Studies requirements in Oral Communication.

**Prerequisite(s) or Corequisite(s):** Completion of Quantitative Literacy requirement or enrollment in a course that satisfies the Quantitative Literacy requirement.

**Description:** This course is designed to present the legal system as it applies to business. The course includes a discussion of fundamental concepts related to the nature and sources of law and to the resolution of disputes. The course requires analysis of statutes, cases, and regulations of related governmental agencies that address employment, securities, trade and workplace decisions. The law of agency, contracts, organizations and torts is analyzed. Ethical and international aspects of law are treated where appropriate.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** MGT 2210

### HON 2211 - Introduction to Theatre

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and satisfaction of the Oral Communication General Studies requirement or permission of department

**Description:** This course presents a comprehensive survey of theatrical art providing an understanding of the living stage, its players and crafts, and its place as a cultural force from antiquity to contemporary times.

*Note: Credit will be granted for only one prefix: THE or HON.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** THE 2210

### HON 2230 - Introduction to International Relations

**Credits:** 3

**Description:** This course introduces students to the discipline of international relations with a general survey of the theories and issues of relations between nation states, states and non-state actors. Issues covered in this course include the causes of war, conflict, and the pursuit of peace in the international system.

*Note: Credit may be granted for only one prefix: HON or PSC.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** PSC 2230

### HON 2611 - Introduction to Technical Writing

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course provides students with the skills to analyze and produce clear and effective technical and scientific documents and materials. Students determine the style, purpose, content, and format for numerous industry-specific reports and technical support documents. Students analyze and produce accessible materials for expert, technical, lay, and intercultural audiences. Students also develop, incorporate, and cite visual elements, including images, tables, and the representation of numeric data, to support the message delivered towards a specific audience.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 2610

### HON 2711 - Vibrations and Waves

**Credits:** 3

**Prerequisite(s):** PHY 2331, MTH 2410

**Description:** This course is an introduction to vibrations and waves associated with physical phenomena. Analytical and numerical methods will be introduced for analysis. The topics covered are harmonic oscillators, waves in elastic media, sound waves, pulses, and dispersion.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** PHY 2711

### HON 2750 - History of the Self

**Credits:** 3

**Prerequisite(s):** Enrollment in the Honors Program or Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this interdisciplinary course, students learn about how grand narratives have shaped and transformed notions of subjectivity over time, from the ancient and/or medieval world through the present day. The focus is on works that have had a literary, philosophical, and artistic impact on the notion of the self. The goal is to comprehend significant changes over time in the relationship between the individual and the world. Students are encouraged to make thematic connections across disciplines.

*Note: B- or better required for Honors credit.*

**General Studies:** Arts and Humanities

### HON 2770 - Dynamics of Change

**Credits:** 3

**Prerequisite(s):** Enrollment in the Honors Program or Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** This course is an interdisciplinary inquiry where students learn about the dynamics of social change. Discussions focus on important examples of radical social transformation throughout

history and from around the globe. Students explore definitions and theoretical models that can be used to explain and institute change. Students are also encouraged to learn about and connect with community-based organizations involved in creating change and promoting social justice. Some sections of this course may be offered as Service Learning courses.

*Note: B- or better required for Honors credit.*

*Some sections of this course may be taught as Service Learning.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

### HON 2800 - Scientific Revolutions

**Credits:** 3

**Prerequisite(s):** Enrollment in the Honors Program or Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course students learn about the initial discoveries that sparked new scientific fields and about the subsequent revolutions caused by such discoveries. By examining the role of the scientific method in the production of knowledge, students improve their own scientific literacy and learn to critically examine historical scientific experiments. Students investigate the methodologies used, the theories and hypotheses tested, and manipulate original data created in selected experiments. Course discussions also examine the complex relationship between science and world views.

*Note: B- or better required for Honors credit.*

**General Studies:** Natural and Physical Sciences

### HON 2811 - Modern Physics I

**Credits:** 4

**Prerequisite(s):** MTH 2420 and PHY 2331

**Corequisite(s):** PHY 2821

**Description:** This is the first course of a two-course sequence which provides an introduction to modern physics. Topics include vibrations and waves, the special theory of relativity, the breakdown of classical physics, and an introduction to quantum mechanics.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** PHY 2811

### HON 2850 - Technology and Society

**Credits:** 3

**Prerequisite(s):** Enrollment in the Honors Program or Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Technology's impact on human life emerges in a wide array of fields such as agriculture, medicine, warfare, politics, education, transportation, space exploration, communication, data science and robotics. In this interdisciplinary course, students consider definitions of technology and examine the historical relationship between humans and technology. Course discussions also explore debates on the ethical uses of technologies and how technological developments impact our lives as individuals and collectively.

*Note: B- or better required for Honors credit.*

**General Studies:** Social and Behavioral Sciences

### **HON 2950 - Introduction to Critical Theory**

**Credits:** 3

**Prerequisite(s):** Enrollment in the Honors Program or Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In the Modern Period, Critical Theory emerges as a decidedly multidisciplinary field that challenges the foundations of the existing social order through in-depth analysis of capitalism, culture, power, the family, and the individual. This course provides an overview of the development of the field of Critical Theory and examines some of its major currents. Topics may include: Psychoanalytic Criticism, Marxist Criticism, Discourse Theory, Feminist Criticism/Gender Studies/Queer Theory, Deconstruction, Race Theory, Postmodernism, New Historicism, Cultural Studies, Narratology, and Digital Media Studies.

*Note: B- or better required for Honors credit.*

**General Studies:** Arts and Humanities

### **HON 3003 - Principles of Marketing**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, completion of General Studies requirements in Oral Communication and Quantitative Literacy, and at least junior standing

**Description:** This course helps students understand marketing, the process through which organizations analyze, plan, implement, and control programs to develop and maintain beneficial exchanges with target buyers. Effective marketing is critical for the long-term success of any business organization because this function ensures that the firm attracts, retains, and grows customers by creating, delivering, and communicating superior customer value.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** MKT 3000

### **HON 3010 - Integrating Educational Technology into Teaching**

**Credits:** 3

**Description:** This course is designed to give prospective teachers an overview of the advancement of technology in this digital age and its impacts on K-12 education. Students will explore emerging educational technologies and survey guidelines for selecting, managing, and evaluating technology tools to enhance teaching and learning. In addition to gaining skills in making multimedia projects, creating a web-based learning environment and using interactive technologies such as interactive whiteboard, students will also learn about issues such as copyrights, e-plagiarism, cyber-bullying, and security, etc. Students who finish this course successfully will become leaders in disseminating innovative ways of integrating technology in schools and through personal learning networks (PLNs).

*Note: Credit will be granted for only one prefix: EDT or HON.*

**Cross Listed Course(s):** EDT 3010

### **HON 3011 - Modern Physics II**

**Credits:** 3

**Prerequisite(s):** HON 2811 or PHY 2811

**Description:** This is the second half of a two-course sequence which provides an introduction to modern physics. The concepts and formalism of quantum physics are used to allow for an understanding of the energy levels and configuration of the hydrogen atom, the strength of molecular bonds, atomic and molecular spectroscopy, solid-state physics, band theory, nuclear and subatomic physics. An introduction to quantum statistics, general relativity, and cosmology is also given.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** PHY 3011

### **HON 3030 - Ethics and International Relations**

**Credits:** 3

**Prerequisite(s):** Enrolled in the Honors Program

**Description:** This course examines the ethical principles governing the international system, as well as the role of ethical norms in international relations. How these norms have been applied to issues of international justice, including war and global poverty, will be discussed, and various ethical theories will be utilized to explore methods of applying ethical principles to current international situations.

*Note: Credit will be granted for only one prefix: HON or PSC.*

**Cross Listed Course(s):** PSC 3031

### **HON 3040 - Sociology of Aging**

**Credits:** 3

**Prerequisite(s):** SOC 1010, SOC 1040 or permission of instructor

**Description:** Analyze the economic, social, political and cultural issues relevant to aging, including changes in social status, income, health care, housing, transportation and intergenerational relationships.

*Note: Credit will be granted for only one prefix: HON or SOC.*

**Cross Listed Course(s):** SOC 3040

### **HON 3050 - Cultural Crossroads: France, Germany, Spain**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** FRE 3050, GER 3050, MDL 3050, SPA 3050

### HON 3051 - Concepts of Lifecycle Nutrition

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course is designed to increase the non-nutrition major's knowledge of the physiological, psychological, sociological, and cultural factors which influence nutritional needs and eating habits throughout the life cycle. Nutrient requirements, dietary planning guidelines, and techniques for assessing nutritional status will be presented for the following life stages: preconception, pregnancy, lactation, infancy, childhood, adolescence, and aging.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**Cross Listed Course(s):** NUT 3050

### HON 3080 - Social Action Through Art

**Credits:** 3

**Prerequisite(s):** SOC 1010 or Permission of instructor

**Description:** This course examines the ways in which sociological concepts and theories relate to the visual arts in contemporary social life. The course emphasizes the various contexts in which visual arts are used to create social integration and social change in small and large groups. In addition, the content of the course provides insight about ways that practitioners may apply sociological principles to create art-related ventures for public and private industries.

*Note: Credit will be granted for only one prefix: SOC or HON.*

**Cross Listed Course(s):** SOC 3080

### HON 3090 - Income Tax I

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1310 or MTH 1400; ACC 2010 and PSC 1010 with a grade of "C" or better; and junior standing or higher

**Description:** This course is a study of federal income tax laws with an emphasis on personal income taxation, including such topics as gross income, gains and losses, and deductions.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3090

### HON 3101 - Social Justice and Activism in the Chicana/o Community

**Credits:** 3

**Prerequisite(s):** CHS 1000

**Description:** This course is designed to provide in-depth sociological, historical and political analyses of community-based organizations, the process by which they originated, leadership styles, and information relative to their missions and functions within the Chicana/o community. Students will analyze theories regarding social change as they apply to social justice, activism and community organizing.

*Note: Credit will be granted for only one prefix: CHS, HON, or SWK.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 3100, SWK 3110

### HON 3102 - Income Tax II

**Credits:** 3

**Prerequisite(s):** ACC 2020 and ACC 3090 with a grade of C or better

**Description:** This course is a continuation of ACC 3090 with a comparative focus on the taxation of organizational tax entities, including partnerships, corporations and S-corporations.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3100

### HON 3103 - International Money and Finance

**Credits:** 3

**Prerequisite(s):** ECO 2010, ECO 2020 and at least junior standing

**Description:** This course covers the basics of the foreign exchange market, the balance of payments, parity conditions in international finance, foreign exchange risk and forecasting, the financing of international activities, and international capital flows. The course will focus on the financial management of the multinational firm.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** FIN 3100

### HON 3120 - Engineering Economy

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** This course covers the application of economic principles to both engineering and personal economic decision-making. Students in this course are introduced to cash flow diagrams as well as the time value of money concepts of present worth, future worth, and annual worth. This course covers various economic analysis techniques for the comparison and selection of competing economic alternatives. Topics on the proper handling of inflation, depreciation, taxes, and risk are described.

*Note: Credit will be granted for only one prefix: CET or HON.*

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** CET 3120

### HON 3140 - Linear Algebra

**Credits:** 4

**Prerequisite(s):** MTH 3100 with a grade of "C-" or better, or MTH 3170 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an introduction to the theory and application of vector spaces, linear transformations, matrix representations, eigenvalues, and eigenvectors. A software package will be used in this course.

*Note: Credit will be granted for only one prefix: HON or MTH.*

**Cross Listed Course(s):** MTH 3140

### HON 3141 - Human Nutrition

**Credits:** 3

**Prerequisite(s):** NUT 1800, NUT 2040, BIO 2320, CHE 2100, DPD application submitted to department

**Description:** This course provides a detailed study of the biochemistry of metabolism, digestion, absorption, and utilization of nutrients. Interactions among genetics, macronutrients, micronutrients, phytochemicals, and metabolism are explored.

Nutrient sources of foods are included.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**Cross Listed Course(s):** NUT 3140

### **HON 3170 - Social Justice, Self, and Citizenship: A Service Learning Course**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSY 1001 and six additional semester hours in Women's Studies or six additional semester hours in Psychology

**Description:** Social justice encompasses research, activism and current events about manifestations of social oppression and social change. This course focuses upon psychological theory and self-identity in the context of multicultural and social justice issues (e.g., classism, racism, sexism, heterosexism, and ableism). Lectures, readings, and discussions are integrated with a required service learning placement involving 30 hours of volunteer work in a setting for the underserved. Students have the opportunity to a) reflect on their values, assumptions, place within, and emotional reactions to social oppressions; b) analyze the political systems that surround their communities and institutions; and c) apply their reflections to their career goals and personal development.

*Note: Credit will be granted for only one prefix: HON, PSY, or GWS. Some sections of this course may be taught as Service Learning.*

**Cross Listed Course(s):** PSY 3170, GWS 3170

### **HON 3202 - Ethics in Health Care**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; ITP 1700 and ITP 2700.

**Description:** This course is designed to assist students entering health care to become familiar with ethical theories and issues that are encountered within the field.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** ITP 3200

### **HON 3203 - Oral Interpretation**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or permission of Theatre Department

**Description:** This course is a study of traditional and contemporary theories of interpretation of literature for the purpose of making the literature come alive for the listening audience and to improve oral communication skills. Students present numerous oral performances of techniques.

*Note: Credit will be granted for only one prefix: HON or THE.*

**Cross Listed Course(s):** THE 3200

### **HON 3204 - Governmental Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3510 with a grade of C or better

**Description:** This course is a study of generally accepted accounting principles and financial reporting used by state and local governmental units. This includes achieving an understanding of fund

accounting and inclusion of budgets within the accounting systems. A study of accounting and financial reporting of colleges, hospitals, voluntary health and welfare organizations, and other not-for-profit institutions is included.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3200

### **HON 3211 - Western Music History I**

**Credits:** 3

**Prerequisite(s):** MUS 2110 and at least junior standing

**Description:** This course is intended for music majors. It comprises a comprehensive survey of Western music history and musical style through the examination of recordings and musical scores. This course traces the origins of Western music in Ancient Greek civilization, and explores the development of polyphony and rhythmic notation in the Middle Ages. An exploration of musical developments and ideas in the fifteenth and sixteenth centuries of the Renaissance follows, and the course concludes with study of the musical Baroque era, spanning roughly 1600 to 1750.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**Cross Listed Course(s):** MUS 3210

### **HON 3212 - Theatre History, Theory, and Criticism II**

**Credits:** 3

**Prerequisite(s):** THE 2210, THE 2240, and THE 3211; or permission of department

**Description:** As a part of a two semester sequence, this course provides detailed and intensive study of specific theatre contexts, practices, genres, and theories from the Neoclassicists to the present.

*Note: Credit will be granted for only one prefix: HON or THE.*

**Cross Listed Course(s):** THE 3212

### **HON 3220 - Aviation Law and Risk Management**

**Credits:** 3

**Prerequisite(s):** AES 1100, Junior Standing

**Description:** This course provides an overview of fundamental aviation law. Concepts and terminology of constitutional law, administrative law, contract law, and tort law as they relate to governmental organization, the regulatory environment, and processes of aviation (including certification, rulemaking, and legislation), enforcement actions, aircraft accidents and incidents, aircraft transactions, insurance, airports and airspace, labor and employment law, and international law are introduced. An introduction to space law is included.

*Note: Credit will be granted for only one prefix: AES or HON.*

**Cross Listed Course(s):** AES 3220

### **HON 3221 - Western Music History II**

**Credits:** 3

**Prerequisite(s):** MUS 3210 and MUS 2130

**Description:** This course is intended for music majors. It comprises a comprehensive survey of Western music history and musical style through the examination of musical scores and primary and secondary source readings. This course traces the musical

developments of the Classical era in the late eighteenth century, followed by a study of the development of musical style and aesthetics in the Romantic era of the nineteenth century. The course finishes with an overview of the radical musical developments of the twentieth century and considers new musical trends at the beginning of the twenty-first century.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**Cross Listed Course(s):** MUS 3220

### **HON 3231 - International Business Law**

**Credits:** 3

**Prerequisite(s):** MGT 2210

**Description:** This course covers the legal context for international business decisions. Topics include selected elements of international law such as customary law and the law of treaties. Also covered are the international law of import/exporting, intellectual property, trade regulations, transportation, documentary transactions, contracts, agency/employment, and dispute resolution. Ethical aspects of the above areas are discussed.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** MGT 3230

### **HON 3240 - Introduction to the Theory of Computation**

**Credits:** 2

**Prerequisite(s):** CS 2050 and CS 2240 each with a grade of "C-" or better, or permission of instructor

**Description:** This course explores these foundations of computing and computer science: languages, computability, and complexity. Types of languages are identified by their expressive power and how they are represented and implemented. Explorations of computability and complexity provide definitive means for determining whether or not a given problem can be solved at all, and if so, how easy or difficult it is to solve.

*Note: Credit will be granted for only one prefix: CS or HON.*

**Cross Listed Course(s):** CS 3240

### **HON 3250 - Black Women Writers**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** The course studies selected works chosen as representative of the issues and concerns of Black women worldwide as voiced by Black women writers from Africa and the Diaspora.

*Note: Credit will be granted for only one prefix: AAS, ENG, GWS, or HON*

**Cross Listed Course(s):** AAS 3250, ENG 3250, GWS 3250

### **HON 3290 - Nazi Germany**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This detailed survey examines the origins of Hitler's regime within the context of 20th century Germany and Nazi domestic and foreign policies to 1939. World War II, given thorough

coverage, is viewed as the logical culmination of Hitler's ideology and his ability to use the German nation as a means to achieve his ends.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**Cross Listed Course(s):** HIS 3290

### **HON 3301 - Homeopathy**

**Credits:** 3

**Prerequisite(s):** ITP 1700 and ITP 2700

**Description:** This course familiarizes students with the field of homeopathy. The course includes the history, laws, principles, and uses of homeopathy in the current health care system. Students are introduced to various homeopathic remedies and their uses. Contemporary research findings are presented, and potential research designs identified.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** ITP 3300

### **HON 3302 - Managerial Finance**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Oral Communication requirements; ACC 2010; MTH 1320 or MTH 1410 with a grade of "C-" or better; ECO 2010; ECO 2020; and at least junior standing.

**Description:** This is a study of the dynamic environment of financial management, exposing students to various finance topics such as financial analysis and forecasting, time value money, security valuation, capital budgeting, risk and return, cost of capital, working capital management and international finance.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** FIN 3300

### **HON 3303 - Statistical Process Control**

**Credits:** 3

**Prerequisite(s):** MET 1310 and MET 3000 with grades of "C" or better

**Description:** This course focuses on statistical process control with emphasis on process capability, troubleshooting, analysis of variance and hypothesis testing.

*Note: Credit will be granted for only one prefix: HON or MET.*

**Cross Listed Course(s):** MET 3300

### **HON 3304 - Rhetoric and Public Culture**

**Credits:** 3

**Prerequisite(s):** COMM 2400

**Description:** This course examines public culture through the lens of rhetorical theory. Using a variety of critical approaches (structuralism, post-structuralism, Marxism, feminism, etc.), we examine various aspects of public culture, including economies of production and consumption of public culture, ways to critically read public culture artifacts, and methods for recognizing implicit value and power in these texts. We engage public culture in various ways in order to investigate how public culture communicates meaning and produces personal, professional, and public identities.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**Cross Listed Course(s):** COMM 3410

### **HON 3305 - Accounting Information Systems**

**Credits:** 3

**Prerequisite(s):** ACC 2010 and CIS 2010 with grades of C or better; at least junior standing

**Description:** This course is a study of principles and current issues relating to the design, implementation, control and regulation of accounting information systems. Tools and technologies related to accounting systems and the place of accounting systems within the modern enterprise provide a focus for the course, which includes an introduction to accounting-related information technology (IT) audit issues.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3300

### **HON 3321 - Entrepreneurial Finance**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** The course is designed to acquaint students with the basic concepts of obtaining funds for the start-up and financing the continued growth of the firm. The course covers start-up financing, growth capital, daily financial management, valuation, and strategic financial planning.

*Note: Credit will be granted for only one prefix: FIN or HON.*

**Cross Listed Course(s):** FIN 3320

### **HON 3340 - International Political Economy**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020; ECO 1040 or ECO 2010 recommended

**Description:** This is a survey course of the major issues and themes of international political economy. It covers the basic theoretical orientations and the international institutions that structure the international economy. It provides students with all the necessary background to understand the intersection of economics and politics in the international system.

*Note: Credit will be granted for only one prefix: HON or PSC.*

**Cross Listed Course(s):** PSC 3340

### **HON 3341 - Physiology of Exercise**

**Credits:** 4

**Prerequisite(s):** BIO 2320, EXS 1640 or PETE 2030

**Description:** This course introduces the student to the physiological response of individuals to exercise as well as the application of these responses to sports medicine, rehabilitation, and general fitness. The laboratory provides experiences that demonstrate the underlying theoretical constructs that govern physiological responses to exercise.

*Note: Credit will be granted for only one prefix: HON or HPS.*

**Cross Listed Course(s):** HPS 3340

### **HON 3400 - Nutrition and Weight Management**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course is a study of the basic principles of, and latest trends in, weight management. This course includes coverage of assessment techniques, behavioral and non-behavioral treatment approaches and prevention strategies. The concept of "health at every (body) size" will be presented. Fad diets and programs with sound nutrition principles will be analyzed.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**Cross Listed Course(s):** NUT 3400

### **HON 3401 - Cost Accounting**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1310 or MTH 1400; ACC 2020 with a grade of C or better

**Description:** This course includes coverage of cost behavior relationships, job order and process costing systems, overhead allocation methods, budgeting and budget variance analysis, cost-volume profit relationships, and cost prediction for supporting management decision-making in service, sales, and manufacturing organizations. Computer applications are an integral part of this course.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3400

### **HON 3410 - Criminal Justice and the Social Structure**

**Credits:** 3

**Prerequisite(s):** CJC 1010 with a minimum grade of C

**Description:** This course examines criminal justice systems in relation to social power, class structure, ecological patterns, subcultural developments, and processes of change in the community and in the criminal justice structure. Culture is examined in order to comprehend the interaction between subcultures in the larger society, as well as develop an understanding of cultural competence. The course evaluates the ambivalence in the social processes of law enforcement, courts and corrections, and the problems of professionalization.

*Note: Credit will be granted for only one prefix: CJC or HON.*

**Cross Listed Course(s):** CJC 3410

### **HON 3420 - Differential Equations**

**Credits:** 4

**Prerequisite(s):** MTH 2420 with a grade of "C-" or better, or Permission of instructor

**Description:** This course includes a study of first, second, and higher order differential equations and systems giving solutions in closed form, by numerical approximations, and through Laplace Transforms. These techniques are applied to problems in the physical sciences and engineering. All sections will integrate the use of the software package Mathematica into the course.

*Note: Credit will be granted for only one prefix: HON or MTH.*

**Cross Listed Course(s):** MTH 3420

### **HON 3430 - Classical Mythology**

**Credits:** 3

**Prerequisite(s):** ENG 2000 or ENG 2100 or permission of instructor

**Description:** Students read, analyze, and write about ancient Greek and Roman mythology as expressed in translations of enduring works of Classical literature. The course provides instruction in historical contexts, narrative techniques, and critical evaluations of Classical mythology. Students locate, study, and apply literary criticism appropriate to individual texts in written literary analysis.

*Note: Credit will be granted for only one prefix: ENG or HON.*

**Cross Listed Course(s):** ENG 3430

### **HON 3460 - Chicana Feminisms**

**Credits:** 3

**Prerequisite(s):** CHS 1000 or GWS 1001; or permission of instructor

**Description:** This course will provide students with a general background on Chicana feminist thought. Chicana feminism has carved out a discursive space for Chicanas and other women of color, a space where they can articulate their experiences at the intersection of race, class, gender, and sexuality, among other considerations. In the process, Chicana feminists have critically challenged Chicano nationalist discourse as well as European and North American feminism. The course will address the diversity in thinking and methodology that defines these discourses thus acknowledging the existence of a variety of feminisms that occur within Chicana intellectual thought. The course will also explore the diversity of realms in which this feminist thinking is applied: labor, education, cultural production (literature, art, performance, etc.), sexuality, and spirituality, among others.

*Note: Credit will be granted for only one prefix: CHS, GWS, or HON.*

**Cross Listed Course(s):** CHS 3460, GWS 3550

### **HON 3471 - Biology of Women**

**Credits:** 3

**Prerequisite(s):** BIO 1000 or GWS 1001 or Permission of instructor

**Description:** An examination of the anatomy and physiology of sex in humans, the mechanisms involved in formation of sex and gender, and the interactions between science, society, and medical practice with regard to issues of sex and gender.

*Note: Credit will be granted for only one prefix: BIO, GWS, HON.*

**Cross Listed Course(s):** BIO 3471, GWS 3470

### **HON 3480 - Cultural Diversity in Health and Illness**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy, and permission of instructor

**Description:** This course prepares students to understand the many different viewpoints and concepts related to health and illness in other cultures and emphasizes the need and means to provide culturally appropriate health care.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ANT 3480

### **HON 3490 - Multicultural Issues in Human Services**

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This course stimulates students' awareness and appreciation of cultural diversity in the United States. Students learn about the effects of historical oppression of African, Asian, European, Hispanic, and Native American people. This course will also examine the trauma and impact of bias, prejudice, and discrimination based on gender, disabilities, sexual orientation, religious affiliation, and age. Emphasis is placed on awareness of cultural diversity in professional interactions.

*Note: Credit will be granted for only one prefix: HON or HSP.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HSP 3490

### **HON 3491 - Native American History**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course begins with a brief survey of North American Native peoples prior to the arrival of European colonists. It next covers the period of colonial exchanges between Native Americans and the Spanish, French, and English. The course then focuses on the shared history between Native Americans and the United States. The curriculum will bring students through the 20th century and provide them an opportunity to consider the dense tangle between history and myth, as they study events like Cherokee removal, Little Big Horn, Wounded Knee, the rise of Native sovereignty, Indian gaming, and legal disputes over sacred lands.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HIS 3490

### **HON 3492 - Globalization and Culture**

**Credits:** 3

**Prerequisite(s):** ANT 1310 or permission of instructor

**Description:** This course explores anthropological approaches to globalization, with an emphasis on understanding transnational movements of capital, commodities, persons and ideas through the analysis of ethnographic case studies. Students examine the impact of globalization on how anthropologists theorize culture and conduct ethnographic fieldwork.

*Note: Credit will be granted for only one prefix: ANT or HON.*

**Cross Listed Course(s):** ANT 3490

### **HON 3511 - Intermediate Accounting I**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1310 or MTH 1400; ACC 2010 with a grade of C or better; and junior standing

**Description:** This is the first course in Intermediate Accounting. The Intermediate Accounting courses are designed to teach the concepts and procedures underlying the measurement and reporting of

financial information.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3510

### **HON 3520 - Intermediate Accounting II**

**Credits:** 3

**Prerequisite(s):** A grade of "C" or better in ACC 3510

**Description:** This course is a continuation of ACC 3510 and covers an in-depth study of basic accounting principles with an emphasis on stockholders' equity and special problems.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3520

### **HON 3540 - Women in the Developing World**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020 or ANT 1310

**Description:** This course presents a cross-cultural study of women's lives in the developing world by examining two main issues: the influence of culture on women's issues and politics' impact on women. By the end of this course students will not only learn about the lives of women in the developing world but also become familiar with how women across the globe articulate the desire for equality.

**Cross Listed Course(s):** ANT 3540, GWS 3540, PSC 3540

### **HON 3570 - African American History I**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with HIS prefix, or permission of instructor

**Description:** This course covers the early history of African Americans in the United States, beginning with their ancestry in West and West-Central Africa and culminating with the Civil War. It analyzes their cultural, social, economic, and political transformation in the colonial and national history of the United States. Topics include the Atlantic Slave Trade, colonial identity, plantation slavery, slave communities, resistance, the Constitution and race, demographics of freedom, abolitionism, the Civil War and its aftermath.

*Note: Credit will be granted for only one prefix: AAS, HIS, or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3570, HIS 3570

### **HON 3600 - Exceptional Learners in the Classroom**

**Credits:** 3

**Description:** This course provides a survey of various exceptionalities, ranging from moderate to severe. Information about child abuse and medical conditions, and their possible effects on student learning and behavior is provided. Teacher candidates are introduced to the special education processes, including the development of individualized education plans from a general education teacher perspective. Principles of Universal Design for Learning (UDL) curriculum accessibility issues are addressed.

*Note: Credit will be granted for only one prefix: HON or SED.*

**Cross Listed Course(s):** SED 3600

### **HON 3601 - General Genetics**

**Credits:** 4

**Prerequisite(s):** BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, CHE 1100 or CHE 1800, and one additional semester of biology required or permission of instructor.

**Description:** A study is made of classical genetics, with emphasis on numerical analysis of inheritance. The molecular biology of replication, transcription, and translation is presented. Genetic variation and human genetic diseases are discussed.

*Note: Credit will be granted for only one prefix: BIO or HON.*

**Cross Listed Course(s):** BIO 3600

### **HON 3602 - Space Flight Operations I**

**Credits:** 3

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** Students review the history of space exploration and related issues motivating human inquiry and travel in space. Topics focus on identifying and understanding elements and systems comprising modern space vehicles and missions. Students analyze various national policies, treaties, and international laws affecting space operations. Fundamentals of interplanetary travel, orbit prediction, and launch and reentry operations are also investigated.

*Note: Credit will be granted for only one prefix: AES or HON.*

**Cross Listed Course(s):** AES 3600

### **HON 3700 - Modern China**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent with a grade of D or better, and any course with HIS prefix or that is crosslisted with one, or permission of instructor

**Description:** This course covers the history of China since 1800, with emphasis on social, cultural, economic, and political developments. The course will discuss the traditional order in China, its breakdown both by internal and external challenges, and the Chinese people's struggle to adjust to the new world order imposed by foreign powers. It will also explore the efforts of the Chinese to remake their country through revolution.

*Note: Credit will be granted for only one prefix: HIS or HON.*

**Cross Listed Course(s):** HIS 3700

### **HON 3703 - Health Disparities in the U.S.**

**Credits:** 3

**Description:** This course analyzes health disparities across racial and ethnic groups in the U.S. with respect to health conditions, risks and prognoses. Methods to change caregiver responses, interventions to improve health care outcomes, and health and social policy changes to address health disparity issues are discussed.

*Note: Credit will be granted for only one prefix: HCM or HON.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HCM 3700

### **HON 3704 - Psychology of Group Prejudice**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or AAS 1010 or CHS 1000 or GWS 1001

**Description:** This course covers psychological theory and research that examines causes, effects, expressions, and reduction of group prejudice. Various types of group prejudice are addressed, most notably prejudice against cultural and ethnic minorities in the United States (i.e., Native Americans, African Americans, Hispanic Americans, and Asian Americans). Sexism and heterosexism also are discussed.

*Note: Credit will be granted for only one prefix.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3700, CHS 3700, PSY 3700, GWS 3700

### **HON 3705 - Political Economy of the Middle East and North Africa**

**Credits:** 3

**Prerequisite(s):** ECO 1040 or ECO 2010

**Description:** This course covers the economic development issues facing the Middle East and North Africa. Students learn about the social, political, and economic issues that are relevant to this region as well as its importance as an energy source to the rest of the world. The course examines how instability in this region can spill over into the global economy through higher oil prices.

*Note: Credit will be granted for only one prefix: ECO or HON.*

**Cross Listed Course(s):** ECO 3700

### **HON 3710 - Research Methods and Program Evaluation in Human Services**

**Credits:** 4

**Prerequisite(s):** ENG 1020, HSP 3330 or permission of instructor

**Description:** Students will explore the many ways to study a research question, how to select the best method of investigation, how to safeguard the rights of participants, how to analyze data, report their findings, and the limitations of research. In addition, students will learn the essentials of program evaluation and its required steps. This course will allow all the students to design and complete a small research study or support the research interest of a program in the community. Finally, the students will be required to present their research projects.

*Note: Credit will be granted for only one prefix: HSP or HON.*

**Cross Listed Course(s):** HSP 3710

### **HON 3711 - Physics Laboratory I**

**Credits:** 2

**Prerequisite(s):** PHY 2811

**Description:** This is the first term of a one-year sequence in laboratory work at the junior level. Topics include electrical measurements, electrical measuring systems, and experimental optics.

*Note: Credit will be granted for only one prefix: PHY or HON.*

**Cross Listed Course(s):** PHY 3711

### **HON 3712 - International Marketing**

**Credits:** 3

**Prerequisite(s):** BUS 1950, MKT 3000 and At least junior standing

**Description:** The primary objective of this course is to introduce students to the complexities involved in the international marketing process. This course will sensitize students to the economic, political, and cultural differences among nations as they affect marketing; introduce students to the framework of organizations, laws, and business practices as they affect marketing; and develop a student's ability to identify and evaluate marketing opportunities in the international marketplace.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** MKT 3710

### **HON 3750 - International Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3510 or FIN 3100 with a grade of C or better

**Description:** This course is a study of the impact on financial reporting and managerial decision-making due to the similarities and differences in accounting standards throughout the world. This course examines the history and development of accounting standards and reviews current topics which affect the comparison of global financial reporting.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 3750

### **HON 3760 - Diversity and Communication in the U.S.**

**Credits:** 3

**Description:** This course examines the relationship between communication and cultural identity with emphasis on the application to four groups of color in the United States: African American, Asian American, Hispanic, and Native American. The goal of the course is to broaden students' perspectives on the power of communication to shape our lived experience and to expand students' capacities to adapt ethically to a changing and diverse world. Students will explore verbal and non-verbal differences and similarities across cultures and critique the communicative construction of ethnocentrism, bias, prejudice, and discrimination.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** COMM 3000

### **HON 3780 - Social Welfare Policy**

**Credits:** 3

**Prerequisite(s):** SWK 3050

**Description:** Social welfare policies at the federal, state, and local levels form the context of direct practice. Social welfare legislation and programs are analyzed. The roles of advocate and lobbyist are examined. Past and present social policies are another focus of this course.

*Note: Credit will be granted for only one prefix: HON or SWK.*

**Cross Listed Course(s):** SWK 3780

### **HON 3790 - Research in Social Work**

**Credits:** 3

**Prerequisite(s):** SWK 2010 and fulfillment of admission requirements to the baccalaureate Social Work Program

**Description:** This course presents fundamental principles, methodology, and techniques of social research as applied to social work practice issues. The course emphasizes concepts, skills, and values essential to the ethical design and implementation of a research project. Major themes are the critical analysis and effective utilization of published research.

*Note: Credit will be granted for only one prefix: HON or SWK.*

**Cross Listed Course(s):** HON 3790

### **HON 3800 - Revolutions and Social Change I**

**Credits:** 3

**Prerequisite(s):** One of the following: HIS 1020, SOC 1010, ECO 2010, PSC 1020, or PSY 2410; completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; Permission of the Honors Program Director.

**Description:** This course examines the phenomenon of revolution. While the multidisciplinary orientation of the course focuses on revolutionary upheavals in the Western and Third World societies, the analytical paradigms explored include sociological, economic, political and historical dimensions.

*Note: Credit will be granted for only one prefix: HON or PSC.*

### **HON 3801 - Stress and Sleep: Impact on Health and Disease**

**Credits:** 3

**Prerequisite(s):** BIO 2310 or ITP 1500

**Description:** This course provides an in-depth study of stress, sleep, and the relationship between the two. Students will learn the physiologic mechanisms of acute and chronic stress, diseases associated with stress overload, and evidence-based ways to manage stress. They will also learn about sleep needs over the life cycle, circadian rhythms, major sleep disorders, and the dangers of sleep deprivation.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** ITP 3800

### **HON 3810 - Revolutions and Social Change II**

**Credits:** 3

**Prerequisite(s):** HON 3800 and one of the following courses: HIS 1020, SOC 1010, ECO 2010, PSC 1020, or PSY 2410; Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; Permission of the Honors Program Director.

**Description:** This is a continuation of HON 3800 and explores the socioeconomic and political consequences of major revolutions studied in HON 3800 and attempts to explain their impact on contemporary world affairs.

*Note: Credit will be granted for only one prefix: HON or PSC.*

### **HON 3813 - Population and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** This course introduces students to the study of population trends, issues and policies with an emphasis on the United States. Topics include fertility, mortality, migration, urbanization, family, gender, ethnicity, aging, and social change as well as the practical uses of demography.

*Note: Credit will be granted for only one prefix: HON or SOC.*

**Cross Listed Course(s):** SOC 3810

### **HON 3820 - International Business**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course is designed to enhance understanding of the international environment faced by businesses. Trade barriers, cultural differences, entry strategies into foreign markets, foreign currency, political environments, and economic environments are among the many topics surveyed to assist students in becoming aware of international issues and events influencing management in today's global environment.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** MGT 3820

### **HON 3910 - Honors Colloquium**

**Credits:** 3

**Prerequisite(s):** "C" or better in ENG 1020 or ENG 1021, Enrollment in the Honors Program or Permission from the Honors Director

**Description:** This variable topics course provides students with the opportunity to examine historical and/or contemporary issues from interdisciplinary perspectives. Course activities include relevant readings from a variety of perspectives and disciplines, discussions encouraging synthesis and analysis of conflicting or competing views, and written assignments.

*Note: This course may be repeated under different topics for a maximum of 6 credits; B- or better required for Honors credit.*

### **HON 3950 - History of Industrial Design**

**Credits:** 3

**Description:** This course provides an overview of the major personalities, organizations, styles, and evolutionary events that shaped the course of industrial design, from the Industrial Revolution to the present. There is a focus on the refinement of industrial design in Europe, the congruence of American design and industry, and the emergence of Asian design and manufacturing.

*Note: Credit will be granted for only one prefix: IND or HON.*

**Cross Listed Course(s):** IND 3950

### **HON 4010 - Advanced Organic Chemistry**

**Credits:** 3

**Prerequisite(s):** CHE 3110 and CHE 4250

**Description:** This course provides an integrated study of techniques used for the investigation of organic reaction mechanisms and a survey of the nature of important organic reaction intermediates.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** CHE 4010

### HON 4050 - Algorithms and Algorithm Analysis

**Credits:** 4

**Prerequisite(s):** CS 3240 and 8 additional credits of upper division CS courses with grades of "C" or better, or permission of instructor. MTH 3210 is recommended.

**Description:** The emphasis of this course is on the design, analysis, and evaluation of efficient algorithms for a wide variety of computing problems.

*Note: Credit will be granted for only one prefix: CS or HON.*

**Cross Listed Course(s):** CS 4050

### HON 4100 - Instrumental Analysis

**Credits:** 3

**Prerequisite(s):** CHE 3000; CHE 3090 or CHE 3110

**Description:** This course presents the theory and practice of instrumental methods of analysis. Topics include sample preparation, instrument electronics, absorption and emission spectroscopy, mass spectrometry, electro-analytical methods, and chromatographic methods.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** CHE 4100

### HON 4150 - Hydrology (Surface Water)

**Credits:** 4

**Prerequisite(s):** GEG 1100 or GEG 1910 or ENV 1200 or GEL 1010, and General Studies Quantitative Literacy complete

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** In this course, students examine surface waters with respect to water flow, drainage systems, storage, pollution and environmental relationships. The hydrologic cycle is studied with respect to the amount and distribution of water, the movement and fluxes of water and current water-related issues. Topics addressed include hydrologic data sources, statistical analysis in hydrologic problem-solving, snow and snowmelt, hydrograph analysis, hydrographic routing, hydrologic modeling and current challenges of urban hydrology, hydrologic models and hydrologic design. Use of spreadsheet software is required.

*Note: Credit will be granted for only one prefix: ENV, GEL, GEG, or HON.*

**Cross Listed Course(s):** ENV 4150, GEG 4150, GEL 4150

### HON 4160 - Human Trafficking

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current

anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 4160, CJC 4160, GWS 4160, HSP 4160, SWK 4160

### HON 4200 - Auditing and Attestation

**Credits:** 3

**Prerequisite(s):** ACC 3510 with a grade of C or better

**Corequisite(s):** ACC 3520

**Description:** This course is an introduction to contemporary theory and practice of auditing and attestation. The course will acquaint the students with Generally Accepted Auditing and Attestation Standards (GAAS), professional ethics, internal control, objectives and procedures for audits and attestation, risk assessment, audit and attestation reports, legal liability, research methodology, and corporate governance. Concepts included are professionalism, independence, evidence, risk, control, and enhancement of reliability and relevance properties of attester's services.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 4200

### HON 4300 - Advanced Inorganic Chemistry

**Credits:** 4

**Prerequisite(s):** CHE 3190 or CHE 4450, CHE 3300, and completion of General Studies Requirements

**Description:** This course is a capstone experience for students and provides an advanced study of topics relevant to the field of inorganic and organometallic chemistry, including atomic and molecular structure, bonding, molecular orbital theory, symmetry, organometallic and inorganic reaction mechanisms.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** CHE 4300

### HON 4301 - Communication Ethics

**Credits:** 3

**Prerequisite(s):** COMM 3100

**Description:** This course identifies key perspectives in communication ethics. Topics include civility, morality/integrity, duty, the self as an ethical agent, organizational ethics, and media ethics. Students apply traditional ethical principles to a variety of communication contexts including interpersonal, small group, team, organizations, and mediated situations.

*Note: Credit will be granted for only one prefix: COMM or HON.*

**Cross Listed Course(s):** COMM 4100

### HON 4310 - Biochemistry I

**Credits:** 4

**Prerequisite(s):** CHE 3110 or CHE 3090

**Description:** This course is an introduction to the chemistry of living systems with emphasis placed on proteins, carbohydrates, lipids, metabolism, and bioenergetics.

*Note: Credit will be granted for only one prefix: CHE or HON.*

**Cross Listed Course(s):** CHE 4310

### **HON 4320 - Advanced Psychological Research Methods**

**Credits:** 3

**Prerequisite(s):** PSY 3010 or PSY 2340; senior standing

**Description:** This course entails the student proposing and designing an empirical psychological study under the guidance of the instructor. Students conduct and analyze a research study using scientifically valid quantitative and/or qualitative methods to investigate psychological phenomena. Students present their research and write a manuscript of the results. This course may be used to fulfill the Senior Experience requirement, and is strongly recommended for students interested in applying to graduate school in Psychology.

*Note: Credit will be granted for only one prefix: HON or PSY.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** PSY 4320

### **HON 4400 - Long-form Nonfiction Writing**

**Credits:** 3

**Prerequisite(s):** JMP 2100 or Permission of Instructor

**Description:** Students study and practice conceiving of, researching and writing the types of long-form nonfiction articles that are published in traditional magazines and in online news and feature outlets. Students produce two publishable long-form nonfiction article. They research likely outlets for long-form articles and practice proposing articles for publication in those outlets.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 4400

### **HON 4410 - Water Law**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or ENV 1400 or ENV 3400 or Permission of instructor

**Description:** This course surveys U.S. water law and administration. Topics include (1) why we need laws regulating water use, (2) how ancient water laws influenced U.S. water law, (3) variations of surface and groundwater law, including prior appropriation, riparian, and hybrid, (4) international and interstate agreements, and (5) a special focus on water administration in the West.

*Note: Credit will be granted for only one prefix: ENV or HON.*

**Cross Listed Course(s):** ENV 4410

### **HON 4480 - Art Theory and Criticism**

**Credits:** 3

**Prerequisite(s):** ARTH 1600, ARTH 1700, and ARTH 2080 with "C-" or better; or permission of department

**Description:** This course is a seminar for advanced students involving the reading and discussion of Modern and Postmodern critical and theoretical essays about the visual arts. Students are required to make extensive use of the library facilities and to demonstrate their ability to analyze texts both orally and in writing. By the end of the course, students will be able to apply theoretical principles to their own and historical artworks.

*Note: Credit will be granted for only one prefix: ARTH or HON.*

**Cross Listed Course(s):** ARTH 4480

### **HON 4510 - Advanced Accounting**

**Credits:** 3

**Prerequisite(s):** ACC 3520 with a C or better

**Description:** This course includes coverage of reporting requirements for partnerships, SEC-regulated companies, not-for-profit organizations, and financially distressed entities, as well as information disclosure requirements for state and local governments, international harmonization of accounting standards, and the possible conversion to International Accounting Standards in the U.S.

*Note: Credit will be granted for only one prefix: ACC or HON.*

**Cross Listed Course(s):** ACC 4510

### **HON 4521 - Seminar in Marketing Management**

**Credits:** 3

**Prerequisite(s):** MKT 3000, 6 additional hours of completed marketing credits, and Senior standing

**Description:** This course is the culminating final course required of all Marketing minor students (and a marketing elective for Marketing majors). In this final course, the student will develop and apply marketing strategies and policies in solution to problems related to the consumer and the business environment.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** MKT 4520

### **HON 4550 - Project Management**

**Credits:** 3

**Prerequisite(s):** MGT 3000 and CIS 2300 or CIS 3300 or MTH 1210 or MTH 1610

**Description:** This course investigates the concepts and applicability of matrix organizations and project management. The unique nature of the project-management structure is also examined, including its emphasis on integrative decision making throughout a product's life cycle.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** MGT 4550

### **HON 4660 - Legal Liability for Physical Educators, Coaches and Administrators**

**Credits:** 3

**Prerequisite(s):** HPS 2050, HPS 2070, Junior standing or permission of instructor

**Description:** This course is designed to provide an overview of the legal issues most often encountered in sport and physical activity. Topics include contract, labor, constitutional, and intellectual property law, with an emphasis on tort law. Content is tailored specifically toward the Human Performance and Sport disciplines. The law is applied to amateur, recreational, and professional sport environments as well as physical education and leisure activities

*Note: Credit will be granted for only one prefix: HON or HPS.*

**Cross Listed Course(s):** HPS 4660

### **HON 4760 - Advanced Internship in Journalism or Media Production**

**Credits:** 1-12

**Prerequisite(s):** Twelve credit hours completed in the Journalism and Media Production department including JMP 2435

**Description:** This advanced, on-the-job learning experience in a technical communications emphasis enables students to work in their chosen career fields. An approved plan from a cooperating organization serves as the course outline for a specific internship, but the outline must fulfill the general requirements of the course. The student must merit the internship experience and provide an acceptable plan of work before being granted permission to register for this course.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 4760

### **HON 4810 - Grants and Grant Writing in the Health Professions**

**Credits:** 3

**Description:** This course provides the student in the health professions with an understanding of funding sources, resources to locate funding agencies, and the grant writing process. Students will write a grant proposal for a community agency.

*Note: Credit will be granted for only one prefix: RECR or HON.*

**Cross Listed Course(s):** RECR 4810

### **HON 4830 - Workforce Diversity**

**Credits:** 3

**Prerequisite(s):** Senior Standing

**Description:** This course provides an integrated perspective on the management practices and systems that influence the development and contributions of individuals within a culturally diverse workforce. The focus is on those practices that enhance an organization's effectiveness in the increasingly competitive domestic and global marketplace.

*Note: Credit will be granted for only one prefix: GWS, HON, or MGT.*

**University Requirement(s):** Multicultural, Senior Experience

**Cross Listed Course(s):** GWS 4830, MGT 4830

### **HON 4890 - Social Documentary**

**Credits:** 1-4

**Prerequisite(s):** JMP 2100

**Description:** Students create photos/essays for publication and portfolios working independently or in teams. Emphasis is placed upon producing stories and images that deal with cultural definitions that impact social change. Finished work emphasizes the marriage between text and image.

*Note: Students may repeat this course for up to 12 credits. Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** JMP 4890

### **HON 4910 - Aviation and Aerospace Strategic Planning**

**Credits:** 3

**Prerequisite(s):** Aviation and Aerospace Management or Science Major and junior standing or permission of instructor

**Description:** This capstone course requires the student to demonstrate and have critiqued their knowledge, skills, and critical thinking abilities in strategic planning as applied to current topics in aviation and aerospace science. Students must demonstrate analytical and interpretive abilities, along with professional level communications skills. Emphasis is placed on decision making ability applied to the aeronautical or aerospace discipline of choice. Students are mentored in industrial trends, best practices, and regulatory issues that address modern industry challenges. Students are further prepared through a professional development certificate process and must develop a career plan and portfolio for assessment by the instructor.

*Note: Credit will be granted for only one prefix: AES or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** AES 4910

### **HON 4948 - Honors Thesis Seminar**

**Credits:** 1

**Prerequisite(s):** "C" or better in ENG 1020 or ENG 1021, Junior or Senior standing, Enrollment in the Honors Program and Permission from the Honors Director.

**Description:** This course is taken prior to the Senior Honors Thesis (HON 4950) and is only open to Honors students. This course familiarizes students with project organization and the scope and proper format of an undergraduate thesis project. Each student develops: a thesis statement, a project outline, an initial bibliography and a working abstract. Students also identify a primary Thesis Advisor for their projects. The Thesis Advisor is a faculty member with expertise in a discipline closely related to the topic of the thesis project.

*Note: This course must be completed with a B- or better in order to advance to the Senior Honors Thesis.*

### **HON 4950 - Senior Honors Thesis**

**Credits:** 3

**Prerequisite(s):** HON 4948 with B- or better, Senior standing, Enrollment in the Honors Program and Permission from the Honors Director, approval from student's department/degree program if taken in place of Departmental Senior Experience course.

**Description:** The Honors Thesis is the culmination of the Honors undergraduate experience. In this course, students complete an independent research and/or creative project under the direction of a primary Thesis Advisor and the Honors Director. The Thesis Advisor is a faculty member with expertise in a discipline closely related to the topic of the thesis project. Students submit a written thesis and deliver a public oral presentation of their work.

*Note: Students are required to receive approval from their department chair if this course is taken in place of a departmental Senior Experience course. This course must be completed with a B- or better in order to count for Honors credit.*

**University Requirement(s):** Senior Experience

### **HON 4951 - Paired Senior Honors Thesis**

**Credits:** 1

**Prerequisite(s):** HON 4948 with B- or better, Senior standing, Enrollment in the Honors Program and Permission from the Honors Director

**Prerequisite(s) or Corequisite(s):** This one-credit course must be paired with an upper division departmental Senior Experience, research or capstone course

**Description:** The Paired Honors Thesis is the culmination of the Honors undergraduate experience. This one-credit course must be paired with an upper division departmental Senior Experience, research or capstone course. In this course, students complete an independent research and/or creative project under the direction of a primary Thesis Advisor and the Honors Director. The Thesis Advisor is a faculty member with expertise in a discipline closely related to the topic of the thesis project. Students submit a written thesis and deliver a public oral presentation of their work.

*Note: This course must be completed with a B- or better in order to count for Honors credit.*

### **HON 4960 - Global Environmental Challenges**

**Credits:** 3

**Prerequisite(s):** Twelve hours of upper division courses in geology, geography, biology and/or meteorology or written Permission of instructor, and Senior standing

**Description:** This course will include the identification of major global environmental problems, including causes and impacts and the interplay of economic, cultural, and political forces. The approach will be a geographic analysis including location, spatial distribution, density, boundaries, and physical factors such as landforms, soils, and climate. Students are responsible as individuals and groups for presentations and discussions.

*Note: Credit will be granted for only one prefix: ENV or HON.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** ENV 4960

## **Hospitality Leadership**

### **HLDR 0370 - Study Abroad in Hospitality**

**Credits:** 0

**Description:** This is a zero-credit course to demonstrate that a student has engaged in a study abroad experience. Students who engage in study abroad will sign-up for this zero-credit course concurrently with the for-credit courses offered on their chosen study abroad in order to indicate that they completed a study abroad experience on their transcript.

### **HLDR 1000 - Introduction to Hospitality**

**Credits:** 3

**Description:** This course provides an overview of the historical development, organization structures, future growth, and dynamics of the tourism and hospitality industry from the perspective of the global economy. Hospitality leaders are integrated into the course to provide industry perspective and lessons in leadership successes and failures.

### **HLDR 1100 - Colorado Tourism and Recreation**

**Credits:** 3

**Description:** This course explores the basic components and aspects of the tourism and recreation industries in Colorado. Students develop a comprehensive knowledge of market segments, key roles, and challenges in the industries.

### **HLDR 1200 - Cannabis 101 for Hospitality**

**Credits:** 3

**Description:** This class will give the student an overview of the recreational and medical cannabis industry in Colorado. What goes on in a dispensary, and the various products sold will be explored. Legal aspects of both medical and recreational cultivation, distribution and possession will be covered. Participants will learn of the guidelines for both consumption and sale of cannabis and related products. Cannabis and CBD in the kitchen will be discussed. Industry leaders will be available for specialized lectures.

### **HLDR 2000 - Career and Leadership Development for Hospitality**

**Credits:** 3

**Description:** Students develop career, personal and educational awareness through the three E's of career planning; Explore, Experience and Execute. Students explore career paths and leadership styles utilizing self-assessment instruments, case studies and evaluations, preparing a developmental roadmap to garner leadership experience through internships, service-learning, and civic engagement. Utilizing tools from the Classroom to Career (C2) Hub, students explore interview techniques, experience professional networking situations, and execute leadership strategies to launch their careers.

### **HLDR 2100 - Event Planning for the Professional**

**Credits:** 3

**Description:** This course presents an overview of the major segments of the events industry such as meetings, exhibitions, special events, and conventions. Students review the roles and responsibilities of destination marketing organizations and destination management companies and examine/evaluate the relationship between official service contractors and professional event planners in the context of their specific functions. This course will highlight the role of the event planner, whose responsibilities include planning, organizing, directing, and controlling various types of meetings and special events.

### **HLDR 2200 - Quality Service Leadership**

**Credits:** 3

**Description:** This course explores the fundamental principles of services management emphasizing how hospitality service leaders create and deliver guest-driven service. Students evaluate methods to enhance value, build guest loyalty, and promote repeat business. Students learn theoretical and practical skills for effective management of service operations relating to front and back of the house, leadership, management principles, service styles, skills, and training of personnel.

### **HLDR 3200 - Talent Leadership**

**Credits:** 3

**Description:** This course analyzes the processes of recruiting, selecting, developing, and retaining talent within a hospitality and tourism organization. Focus is on talent management strategies and initiatives which are integrated with organizational strategy and bottom-line objectives. Students conduct a personal inventory of their human relations, emotional intelligence, and leadership skills.

### **HLDR 3250 - Managerial Accounting for Hospitality**

**Credits:** 3

**Prerequisite(s):** ACC 3120

**Description:** This course concentrates on the analysis and interpretation of hotel, restaurant, event and tourism accounting procedures, and financial statements. The importance of Uniform System of Accounts for hospitality businesses, the completion of the accounting cycle, and ethical accounting practices are related to the production and analysis of balance sheets, income statements, and cash flow statements. Principles of budgeting, forecasting, pricing techniques, revenue management, financial ratios, and financial management are reviewed by conducting case analysis explicit to the hotel, restaurant, events, and tourism industries.

### **HLDR 3300 - Hospitality Marketing and Sales**

**Credits:** 3

**Description:** This course explores principles, concepts and systems utilized in marketing and sales within the hospitality industry. Students explore market segmentation, quality services and products, professional sales, branding, consumer behavior, market planning, digital marketing, paid media, and social media, in order to develop a marketing plan and sales strategy.

### **HLDR 3400 - Facilities Operations**

**Credits:** 3

**Description:** This course provides fundamental concepts of facilities operations in hospitality. Students learn how to work effectively with the engineering and maintenance departments. The course prepares students to responsibly manage with emphasis on the areas of accessibility, safety, energy, water, and waste management as related to their impact on the environment and facilities oversight.

### **HLDR 3600 - Organizational Leadership for Hospitality**

**Credits:** 3

**Prerequisite(s):** HLDR 3200

**Description:** This course explores organizational leadership and behaviors in the hospitality industry with an emphasis on management philosophy, communication, motivation, organizational change, and culture. Students explore the interrelationship of ethics, social responsibility, power, politics, trust, and influence in hospitality and tourism.

### **HLDR 3800 - Servant Leadership in Hospitality**

**Credits:** 3

**Description:** This course combines academic instruction, meaningful civic engagement and community service, and critical reflective thinking to enhance student awareness and personal ability to identify and address complex problems that face our community and the hospitality industry. Students exhibit servant leadership through engagement with; non-profit and professional organizations, legislature, and governmental agencies to affect desired change, and develop an understanding of the value of an active civic role in the hospitality community.

*Note: Some sections of this course may be taught as Service Learning.*

### **HLDR 3850 - Capital Management for Hospitality**

**Credits:** 3

**Prerequisite(s):** HLDR 3250

**Description:** Students will develop an understanding of the strategic role that real estate plays in the commercial lodging industry in the United States. Topics include capital structure, financing, and investment decision-making processes, asset management and property valuation.

### **HLDR 3910 - Variable Topics in Hospitality**

**Credits:** 3

**Description:** This special topics course allows students to in-depth discussion and analysis for issues, topics, and/or trends within the hospitality field.

*Note: The course may be taken under different course titles for a total of 9 credits.*

### **HLDR 3920 - Directed Study in Hospitality Leadership**

**Credits:** 3

**Description:** This course provides an opportunity for upper-division students with a strong background in hospitality to pursue a specific research topic or project of interest with a faculty member. The course requires the permission of the instructor and the dean of the School of Hospitality, Events, and Tourism.

### **HLDR 3980 - Internship in Hospitality**

**Credits:** 3

**Description:** This course facilitates a student's integration of the theoretical framework of their education into the hospitality industry. Students will rotate through multiple departments while learning how leaders engage in a variety of managerial responsibilities. Students will participate in a minimum of 150 internship hours in a paid, approved internship, in addition to course participation.

### **HLDR 4000 - Cost Control for Hospitality and Tourism**

**Credits:** 3

**Prerequisite(s):** ACC 3120

**Description:** This course provides a comprehensive look at the methods, tools, and techniques for successful management of fixed and variable costs for hospitality and tourism. Students utilize

spreadsheet tools for analysis related to areas including planning, budgeting, standard costing, menu development, principles of purchasing, and labor/volunteer costs. Emphasis is placed on the managerial role in identifying and controlling costs to ensure fiscal accountability in a sustainable environment.

### **HLDR 4100 - Hospitality Law and Risk Management**

**Credits:** 3

**Description:** This course provides an overview of the legal fundamentals that apply to operations and leadership in the hospitality and tourism industries with an emphasis on preventive risk assessment, management, and mitigation practices. Students identify potential legal liabilities, advocating specific business decisions based upon their risk assessment.

### **HLDR 4400 - Strategic Management for Hospitality**

**Credits:** 3

**Prerequisite(s):** HLDR 3300

**Description:** Students approach strategic management in the hospitality and tourism industry by evolving leadership techniques to acquire, develop, and manage internal resources such as talent, financial capital, physical assets, and intellectual capital.

### **HLDR 4500 - Applied Leadership in Hospitality**

**Credits:** 3

**Prerequisite(s):** HLDR 3600, senior standing or permission of Department

**Description:** This comprehensive senior-level capstone course completes the transformation of students into hospitality leaders incorporating disciplines throughout the curriculum. The primary focus is on the successful development, execution and application in the creation of a leadership concept.

**University Requirement(s):** Senior Experience

## **Hospitality, Tourism, and Events**

### **HTE 1030 - Introduction to Hospitality, Tourism and Events**

**Credits:** 1

**Description:** In this course, students are provided an overview of the hotel, restaurant, tourism, and event industries. Basic operations, development, and management of those industries are covered. The course includes career opportunities and industry interrelations across these four professions.

### **HTE 1035 - Academic and Career Development**

**Credits:** 2

**Corequisite(s):** HTE 1030

**Description:** In this course, students gain an overview of the Hospitality, Tourism and Events Department at MSU Denver and learn how to maneuver through the University systems to become a successful student. The course includes career self-appraisal, academic management, scholarship application processing, cover

letter instruction, interviewing skills, and strengths weakness opportunities threats analyses. At the conclusion of the semester, students attend a departmental career expo where students apply skills learned in class.

### **HTE 1040 - Hospitality, Tourism, and Event Fundamentals**

**Credits:** 3

**Description:** In this course, students are provided an overview of the hotel, restaurant, tourism and event industries. Basic operations, development, and management of those industries are covered. The course includes career opportunities and industry interrelations across these four professions. Students gain an overview of the Hospitality, Tourism and Events Department at MSU Denver, and learn how to maneuver through the university systems to become a successful student. The course includes career self-appraisal, academic management, scholarship application processing, cover letter instruction, interviewing skills, and strengths weakness opportunities threats analyses.

*Note: Course must be taken within first 30 credit hours of declaring EVT, HTL, RST, or TTM major.*

### **HTE 1041 - Hospitality Service Systems**

**Credits:** 3

**Description:** This course covers aspects of interpersonal, intercultural and nonverbal components of service to the customer. Students will examine the cycle of service, critical points of service, various customer service systems, methods used to evaluate customer service systems and effective training and development for delivery of successful customer service.

### **HTE 1052 - Gaming Management**

**Credits:** 3

**Description:** This course introduces the student to a thorough understanding of the operational, management, and legal aspects of the gaming and casino industry business.

### **HTE 2833 - Garde Manger**

**Credits:** 3

**Prerequisite(s):** HTE 1603

**Description:** This course will introduce students to the modern and traditional techniques in the preparation of cold entrees, sauces, soups, pates, terrines, galantine, roulades, chaud-froid, sausages, cheeses, and hors d'oeuvres. Students will plan, organize, and direct buffets. This course will also concentrate on the practical techniques and management of showpieces and centerpieces of cold food management and skills of the Garde Manger.

### **HTE 3250 - Managerial Accounting for Hospitality**

**Credits:** 3

**Prerequisite(s):** ACC 1010 or ACC 2010

**Description:** This course concentrates on the analysis and interpretation of hotel, restaurant, event and tourism accounting procedures and financial statements. The importance of Uniform

System of Accounts for hospitality businesses, the completion of the accounting cycle, and ethical accounting practices are related to the production and analysis of: balance sheets, income statements, and cash flow statements. Principles of budgeting, forecasting, pricing techniques, revenue management, financial ratios and financial management are reviewed by conducting case analysis explicit to the hotel, restaurant, events, and tourism industries.

### **HTE 3310 - Global Cuisine**

**Credits:** 3

**Prerequisite(s):** HTE 2613

**Description:** In this course, students explore the culinary history and development of cuisines from global, cultural perspectives. Students will study and experience cuisines from worldwide regions utilizing authentic ingredients and tools for preparation and service. An emphasis is placed on the influences that have developed cultural traditions, taboos and dining etiquette, as practiced by the global populations.

### **HTE 3550 - Human Resources in Hospitality**

**Credits:** 3

**Description:** In this course, students examine the human resources and management issues that are prevalent in the hotel, restaurant, tourism, and events industries. The course explores planning, organizing, goal setting, and communicating effectively. Equal Employment Opportunity (EEO), diversity, recruitment, and training are also covered in this course.

### **HTE 3570 - Marketing for Hospitality**

**Credits:** 3

**Description:** In this course, students apply the principles of marketing and advertising to the specific needs of the hotel, restaurant, tourism, and event industries. Students will conduct field work in their area of concentration, analyze particular marketing concepts, and provide current application.

### **HTE 3580 - Legal Aspects of Hospitality**

**Credits:** 3

**Description:** This course provides an overview of the legal fundamentals that apply to operations and management in the hospitality and tourism industries with an emphasis on preventative management practices. Legal procedures, Civil Rights, contract law, negligence, relationships with guests, and specialized liabilities related to food and alcohol service and tourism companies are covered. Additional topics of contemporary legal issues as they relate to employment practices, market regulations, and franchising.

### **HTE 3623 - Food Production and Service II**

**Credits:** 3

**Prerequisite(s):** HTE 2613 and NUT 2040

**Description:** This course is designed to teach the student how to manage quantity food production and front of the house operations through laboratory work and real-world dining experiences. The

student will learn culinary vocabulary, garnishing and plate presentation, buffet and a la carte dining service, work simplification, sanitation, merchandising, food cost control, inventory procedures, time management, employee management and equipment operation.

### **HTE 3833 - Garde Manger**

**Credits:** 3

**Prerequisite(s):** HTE 2613 and HTE 3603

**Description:** This course immerses the student in the art and science of garde manger cuisine that emphasizes hot- and cold-plated foods, buffets, showpieces, current plating trends, and profit accountability. Students will produce and manage all aspects of a la carte and banquet events to include front-of-the-house buffet design, artistic showpieces, layout and design of food stations, and guest interactions.

### **HTE 3980 - Internship in Hospitality, Tourism and Events**

**Credits:** 1-15

**Prerequisite(s):** Permission of Department

**Description:** This internship requires specialized skills that students may apply in hospitality, tourism and events settings. A written learning contract between student, faculty supervisor, site supervisor, agency, and department chair is required. Activities include finding and working in an approved hospitality, tourism or events setting. Academic credit is determined according to a ratio of 50 clock hours worked as equivalent to 1 credit hour.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course is variable credit and may be repeated for up to 15 credit hours.*

### **HTE 4000 - Hospitality Field Experience**

**Credits:** 3

**Prerequisite(s):** Completion of twelve hours in major concentration and senior standing

**Description:** In this course, students apply the theoretical concepts of hospitality and tourism to a practical, on-site, learning experience. The course includes 30 hours of field experience in an internship, community volunteer program, or a study-abroad setting.

**University Requirement(s):** Senior Experience

### **HTE 4010 - Hospitality Special Project**

**Credits:** 1

**Prerequisite(s):** Completion of twelve hours in major concentration, senior standing, and completion of General Studies requirements.

**Description:** In this course, students apply the theoretical concepts of hospitality and tourism to a practical on-site learning experience. This course includes 45 hours of field experience in an internship, community volunteer program, or a study-abroad setting.

## HTE 4040 - Hospitality Senior Research

**Credits:** 3

**Prerequisite(s):** Completion of twelve hours in major concentration, senior standing, and completion of General Studies requirements.

**Description:** This course provides the approaches and techniques necessary for senior students to analyze and synthesize-needs, create and develop a major research project in Hospitality, Tourism, and Events, and effectively interpret results and their application to their major concentration area.

**University Requirement(s):** Senior Experience

## HTE 4592 - Current Topics: Lodging

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** The course considers various problems, subjects, and trends related to changing environments and events in the hotel industry. Subjects related to career as well as personal development may also be studied.

*Note: This course may be repeated under different topics three times for a maximum of nine total credits earned.*

## HTE 4730 - Hospitality Negotiations and Sales

**Credits:** 3

**Prerequisite(s):** HTE 3580 or Approval of Department

**Description:** This course provides an overview of the legal, ethical, and practical environment which impacts the negotiation of meeting contract and the execution of the events in which they represent. It examples the strategies of negotiation and sales.

## HTE 4750 - Hospitality Leadership

**Credits:** 3

**Prerequisite(s):** HTE 3550

**Description:** In this course, students explore theoretical findings concerning leadership and brings them to life through practical application. Students complete a series of self assessment to identify their management and leadership styles and traits. The course addresses the importance of leadership, charisma and characteristics of leaders. The meaning of ethics, social responsibility, power, and politics in the hotel, restaurant, tourism, and event industries are investigated through role play and debate.

## HTE 4800 - Strategic Management for Hospitality

**Credits:** 3

**Prerequisite(s):** ACC 1010 or ACC 2010

**Prerequisite(s) or Corequisite(s):** HTE 3250, HTE 3570, HTE 3580

**Description:** In this course, students analyze various approaches to strategic management in a hospitality and related industry context. Course content overviews strategy concepts and ideas while illustrating relevant examples from current hotel, restaurant, tourism, and events industry cases. Student compare managerial techniques to acquire, develop, and manage internal resources such as people, knowledge, financial capital, and physical assets. Strategies for restructuring, entrepreneurship, innovation, organization design, and

global alliances are analyzed to best suit stakeholder interest in hospitality and related industry businesses.

## HTE 4860 - Hospitality Security and Safety

**Credits:** 3

**Prerequisite(s):** HTE 3580 or Permission of instructor

**Description:** This course examines security, loss prevention, safety, and risk management as related to the hospitality and tourism industries. Legal concepts specific to industry operations are applied in detail through case studies, role playing, and site visits. Students conduct a risk assessment survey and compose a loss prevention management plan.

## Hotel Management

### HTL 1010 - Hotel Industry Fundamentals

**Credits:** 3

**Description:** This course will present an overview of dynamic interrelationships of the lodging industry, and segmentation of the various types of properties and how they differ from each other. Examinations of various topics include: guest services, human resources, property management, sales and marketing, brand management, revenue management, career paths, current industry trends, and historical industry developments.

*Note: Course must be taken within first 12 hours of entering HTL major*

### HTL 1500 - Resort Operations

**Credits:** 3

**Description:** This course will cover the operational skills needed to help manage the range of services offered at lodging properties. The importance of both the quality of the systems and the development of the personnel enlisted to manage core departments in a lodging facility are demonstrated.

### HTL 2512 - Hotel Front Office

**Credits:** 3

**Description:** This course examines hotel-front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and settlement. Students identify effective front-office management, with particular attention to the planning and evaluation of front-office operations. Front-office procedures and management are placed within the context of the overall operation of the hotel.

### HTL 2600 - Casino and Gaming Management

**Credits:** 3

**Description:** This course will allow students to analyze the key operational components of managing a casino floor and sportsbook. Accounting controls, games and gaming development, guest service, career opportunities and the future of the casino industry will be explored.

## **HTL 3522 - Hotel Housekeeping**

**Credits:** 3

**Description:** This course demonstrates how to manage housekeeping operations in the hotel industry. Students study the management of direct housekeeping day-to-day operations from the big picture perspective down to technical details. This course examines the interrelation of hotel departments, and maximum guest service and profitability.

## **HTL 3652 - Hotel Property Management**

**Credits:** 3

**Description:** In this course, students examine blueprint reading, building construction safety, utility requirements, and mechanical systems as they relate to managing a hospitality property.

## **HTL 4000 - Current Trends in Lodging Industry**

**Credits:** 3

**Description:** In this course, students will discuss, analyze, evaluate, and formulate solutions to various current topics and trends taking place in the lodging industry. May include on-site visits to local hotels and will also include a variety of guest speakers from the lodging industry.

## **HTL 4100 - Revenue Management**

**Credits:** 3

**Prerequisite(s):** HLDR 3250

**Description:** This course provides students with the foundational metrics and definitions that are used throughout the lodging industry. Students will analyze various types of lodging industry data, interpret the results of a variety of reports, and make strategic inferences based on their analyses. In addition, this course prepares students for the exam required to obtain the Certification in Hotel Industry Analytics (CHIA). This certification is recognized internationally by the lodging industry as a knowledge benchmark for revenue management.

## **HTL 4200 - Lodging Regulatory Environment**

**Credits:** 3

**Description:** This course will help prepare students to effectively manage the ever-changing legal environment of the lodging and food-service industries. Decision-making techniques will be introduced to allow students to demonstrate effective critical thinking in case study analyses and exercises.

## **HTL 4500 - Applied Hotel Management**

**Credits:** 3

**Description:** This course will focus on the business decisions made at the management and executive levels of a hotel and how those decisions affect not only the property itself but also a hotel's competitive set. A real market dynamic is simulated for a hotel that students will manage, with a focus on the financial results of key areas such as market share, revenue optimization, forecasting, capital

investment, channel management, and food & beverage revenue sourcing. Utilizing simulation software, students will develop a competitive and operational strategy, implement the strategy, and review the results of their decisions in a simulated market environment.

**University Requirement(s):** Senior Experience

## **Human Performance and Sport Skills**

### **HPL 1000 - Human Performance and Leisure Activities: Variable Topics**

**Credits:** 2

**Description:** A wide variety of two-credit activity courses designed for the interests of the general student body. These courses do not serve the needs of Human Performance and Sport majors.

*Note: This course may be repeated under different titles for a maximum of 16 credits.*

### **HPL 1020 - Ballet Folklórico**

**Credits:** 2

**Description:** This course will serve as an introduction to Ballet Folklórico through an exploration of the technique, music, culture, and philosophy associated with this dance tradition.

**Cross Listed Course(s):** DANC 1020

### **HPL 1101 - Hip Hop I**

**Credits:** 2

**Description:** This course will incorporate hip hop dance techniques, popular hip hop moves, terminology, history and various styles of hip hop will be learned. The class will consist of warm up, center floor work, across the floor, and dance combinations.

*Note: This course may be taken twice for a total of 4 credits.*

**Cross Listed Course(s):** DANC 1101

### **HPL 1110 - Belly Dance I**

**Credits:** 2

**Description:** Belly dancing, an ancient cultural dance, is a creative and joyous art of self-expression and a way to fitness and wellbeing.

*Note: This course may be taken twice for a total of 4 credits.*

**Cross Listed Course(s):** DANC 1110

### **HPL 1130 - Ballet Level I**

**Credits:** 2

**Description:** Intended for adults with minimal or no experience, this course presents basic steps, positions, and movements of classical ballet, stressing correct body placement.

**Cross Listed Course(s):** DANC 1130

### **HPL 1150 - Ballroom Dance**

**Credits:** 2

**Description:** This course provides instruction and practice in

ballroom dance with a focus on traditional dances. Dance mixers and ice breakers will also be included in this class.

**Cross Listed Course(s):** DANC 1150

#### **HPL 1160 - Jazz Level I**

**Credits:** 2

**Description:** This course is designed to teach fundamental techniques of jazz dance for fitness, endurance, strength, alignment and to help the student discover different movement patterns.

**Cross Listed Course(s):** DANC 1160

#### **HPL 1180 - Modern Dance I**

**Credits:** 2

**Description:** This course is designed for students with minimal or no dance experience. A basic modern dance foundation stressing alignment, strength and coordination will be covered.

**Cross Listed Course(s):** DANC 1180

#### **HPL 1210 - Improvisation and Choreography**

**Credits:** 3

**Description:** This course explores introductory dance improvisation and composition through creative problem solving and choreographic exercises. It is organized into sequences, expressing a variety of themes.

**Cross Listed Course(s):** DANC 1210

#### **HPL 1240 - Tap Dance I**

**Credits:** 2

**Description:** This course is designed to provide an introduction to tap dance, as well as the physical, social and emotional benefits derived from regular participation in this activity.

**Cross Listed Course(s):** DANC 1240

#### **HPL 1330 - Golf I**

**Credits:** 2

**Description:** This course is designed for the beginning golfer. The course covers individual skills, rules, etiquette, etc. The course meets off-campus at a golf practice facility.

#### **HPL 1340 - Golf II**

**Credits:** 2

**Prerequisite(s):** HPL 1330 Golf I or adequate playing ability or instructor approval

**Description:** This course is designed for the student with prior experience in golf. The course will include a review of fundamentals and advanced skills. The course meets off-campus at a golf practice facility.

#### **HPL 1350 - Tennis Level I**

**Credits:** 2

**Description:** This course is designed for beginning players who are below 2.5 USTA rating. Skills, strategy and rules at the introductory level are presented.

#### **HPL 1400 - Fencing**

**Credits:** 2

**Description:** This course is designed to teach the basic fundamentals of beginning fencing.

#### **HPL 1410 - Ski, Cross-Country, or Snowboard**

**Credits:** 2

**Description:** This course is taught at a nearby ski area. Lessons are presented by the area's instructional staff in alpine skiing, cross-country skiing, or snowboarding. Instruction for beginners to advanced students is given.

#### **HPL 1450 - Backpacking and Camping**

**Credits:** 2

**Description:** This is a course that combines lectures and a weekend backpacking trip where the student will learn where to go, how to dress, the type of equipment needed, how to feed him/herself and others, as well as learning wilderness ethics.

#### **HPL 1500 - Total Fitness**

**Credits:** 2

**Description:** Total Fitness takes a comprehensive approach to fitness, which includes proper stretching, strength training and aerobic exercise. The topics of nutrition, stress management, criteria for selecting a fitness club and personal trainer are also discussed. Students will learn proper technique for and participate in a variety of cardiovascular, resistance training and flexibility activities.

*Note: Class includes activity and lecture*

#### **HPL 1660 - Tae Kwon Do Level I**

**Credits:** 2

**Description:** This course is designed to introduce the beginning student to the Korean martial art of tae kwon do and how it may relate to personal health, physical conditioning, and self-defense.

#### **HPL 1670 - Tae Kwon Do Level II**

**Credits:** 2

**Description:** This course will give the intermediate and advanced martial arts student the opportunity to develop and perform their art for their own enjoyment and for the public.

#### **HPL 1750 - Weight Training Level I**

**Credits:** 2

**Description:** This is a course designed to introduce the student, both

male and female, to the proper conditioning programs for personal physical development.

### **HPL 1760 - Weight Training II**

**Credits:** 2

**Description:** This course is designed for the moderately experienced weight lifter. Instruction and practice in the necessary skills of strength and conditioning will be performed to make sure the student will be safe and to work toward the individual's set goals. Advanced lifting techniques, including power lifting, will be performed.

### **HPL 1820 - Stretch and Strength**

**Credits:** 2

**Description:** This course includes instruction on proper stretching techniques, along with methods of developing strength. Exercise injury prevention is stressed.

### **HPL 1830 - Walk, Jog, Run**

**Credits:** 2

**Description:** This course is designed to introduce the student to the benefits of walking/jogging as a method of aerobic conditioning and how to use these exercises safely while promoting cardiovascular health.

### **HPL 1840 - Hatha Yoga I**

**Credits:** 2

**Description:** This course offers students an introduction to the basic methodologies of asana (posture), pranayama (breathing practices) and meditation. The foundation of yoga, as outlined in the Hatha and Raja yoga philosophies, will build the context for the class work.

### **HPL 1850 - Hatha Yoga II**

**Credits:** 2

**Description:** This is an advanced course that deepens the application of pranayama, meditation, bandhas and the mudras in yoga practice. The focus is to deepen the understanding of Classical Yoga and the Yoga Sutras by Pantanjali.

### **HPL 1860 - Yoga for Anxiety Management**

**Credits:** 2

**Description:** This course offers students of all levels of fitness a comprehensive yoga program designed for anxiety management, improving wellness, fitness, vitality, sleep and stress reduction. It combines specific practices for anxiety management: postures (asanas), breathing practices (pranayama), relaxation (yoga nidra), and meditation. Students will gain knowledge of practical aspects of yoga psychology and yoga philosophies (Hatha, Raja, and Karma Yoga paths), recommended for anxiety management and their application to contemporary lifestyle. The students will acquire yoga tools and knowledge to find a healthy outlet for anxiety and to ability

manage reactions to emotional triggers.

*Note: no previous yoga experience necessary*

### **HPL 1870 - Stress Management**

**Credits:** 2

**Description:** This course is designed to provide the student with an understanding of the elements of stress-induced conditions, as well as provide a means by which students will become capable of effectively relieving stressful conditions.

### **HPL 1880 - Tai Chi Level I**

**Credits:** 2

**Description:** This course is designed to introduce the beginning student to the 25 basic movement forms and concepts of Tai Chi, an ancient form of Chinese physical exercise and mental concentration. Tai Chi is a gentle form of exercise that provides practical application to movements in daily life with an emphasis on meditation, strength, flexibility and aerobic training.

### **HPL 1890 - Tai Chi Level II**

**Credits:** 2

**Description:** This course is designed for students already familiar with the content of Tai Chi Level I. Tai Chi Level II completes the 108 movement forms and concepts begun in Tai Chi Level I and covers advanced movements through expanded amplitude, direction, and complexity.

### **HPL 1960 - Yoga for Weight Management**

**Credits:** 2

**Description:** This course offers students of all levels of fitness a comprehensive yoga program designed for weight management, improving wellness, fitness, and vitality. It combines specific practices for weight management: postures (asanas), breathing practices (pranayama), relaxation (yoga nidra), and meditation. Students will gain knowledge of practical aspects of yoga psychology and yoga philosophies (Hatha, Raja, and Karma Yoga paths), recommended for weight management and their application to contemporary lifestyle.

### **HPL 2000 - Weight Training for Women**

**Credits:** 2

**Description:** This course emphasizes appropriate and safe resistance training techniques for the beginning or intermediate female lifter. The learner will understand and practice proper technique in a variety of resistance exercises. Students will be exposed to discussions regarding body composition, weight loss, nutritional considerations while exercising, and the positive psychological impact of exercise. The course environment is non-intimidating, supportive, and designed to motivate the learner. Program designed for increased muscular endurance, muscular strength and cardiovascular endurance will be covered.

*Note: no experience necessary*

## HPL 2201 - Hip Hop II

**Credits:** 2

**Prerequisite(s):** HPL 100I or Instructor Approval

**Description:** Students will gain a physical and intellectual understanding of intermediate hip-hop as they are exposed to hip-hop terminology, history, and a variety of hip-hop styles.

**Cross Listed Course(s):** DANC 2201

## HPL 2210 - Belly Dance II

**Credits:** 2

**Prerequisite(s):** HPL 1110 or permission of instructor

**Description:** Belly dancing, an ancient cultural dance, is a creative and joyous art of self-expression and a way to fitness and wellbeing. Belly Dancing Level II will delve deeper into the emotional, physical and spiritual components of Belly Dancing. Students will learn to dance with increased fluidity and depth, explore floor work and create an original dance.

*Note: This course may be taken twice for a total of 4 credits.*

**Cross Listed Course(s):** DANC 2210

## HPL 2230 - Ballet II

**Credits:** 2

**Prerequisite(s):** HPL 1130 or Instructor Approval

**Description:** This course is designed for students with beginning ballet skills. It will cover low intermediate level classical ballet exercises, stressing performance quality and proper alignment.

**Cross Listed Course(s):** DANC 2230

## HPL 2240 - Tap Dance II

**Credits:** 2

**Prerequisite(s):** HPL 1240

**Description:** This course is designed for low-intermediate level tap dance students. It introduces intermediate techniques of tap for fitness, health, rhythmic and performance skills.

**Cross Listed Course(s):** DANC 2240

## HPL 2260 - Jazz II

**Credits:** 2

**Prerequisite(s):** HPL 1160

**Description:** This course is for students with beginning level jazz dance experience. This course covers low intermediate Jazz Dance techniques focusing on alignment and performance presence.

**Cross Listed Course(s):** DANC 2260

## HPL 2280 - Modern Dance II

**Credits:** 2

**Prerequisite(s):** HPL 1180

**Description:** This course is designed for students with beginning modern dance experience. A low intermediate movement foundation stressing alignment, syncopation and performance presence will be covered.

**Cross Listed Course(s):** DANC 2280

## HPL 3320 - Women's Self-Defense

**Credits:** 1

**Description:** This course will begin by examining the psychological tools needed to defend oneself and will gradually move into the actual, physical skills necessary to survive, escape, avoid and/or resist violence. The Women's Empowerment Model will be presented. This model emphasizes self-respect, an understanding of one's inalienable human

rights, and the determination and ability to protect those rights. Students will learn self-defense against verbal and physical assaults by becoming more aware, assertive and skilled in physical resistance techniques. Using interactive exercises, students will practice both verbal and physical self-defense skills. All ability levels are welcome, but the class is extremely physical; thus, students should come prepared to move.

*Note: Credit will be granted under one prefix only: CPD or HPL.*

**Cross Listed Course(s):** CPD 3320

## HPL 3330 - Ballet III

**Credits:** 2

**Prerequisite(s):** HPL 2230 and Instructor Approval

**Description:** This course is designed for students with low intermediate ballet skills. Intermediate level ballet exercises, stressing quality, artistry, alignment and efficiency of movement are covered.

**Cross Listed Course(s):** DANC 3330

## HPL 3360 - Jazz III

**Credits:** 2

**Prerequisite(s):** HPL 2260 and department approval

**Description:** This class is for students with low intermediate level jazz dance experience. This course covers intermediate Jazz Dance focusing on, alignment, and performance presence.

**Cross Listed Course(s):** DANC 3360

## HPL 3380 - Modern Dance III

**Credits:** 2

**Prerequisite(s):** HPL 2280 and Department Approval

**Description:** This course is for students with low intermediate modern dance experience. Students will build an intermediate movement foundation stressing alignment, syncopation, weight and performance presence.

**Cross Listed Course(s):** DANC 3380

## HPL 4430 - Ballet IV

**Credits:** 2

**Prerequisite(s):** HPL 3330 and Department Approval

**Description:** This course is designed for students with intermediate ballet skills. This course will cover advanced intermediate level ballet, stressing quality, artistry, efficiency and alignment.

**Cross Listed Course(s):** DANC 4430

## HPL 4460 - Jazz IV

**Credits:** 2

**Prerequisite(s):** HPL 3360 and Department Approval

**Description:** This class is for students with intermediate level jazz dance experience. This course covers advanced intermediate Jazz Dance, focusing on alignment and performance presence.

**Cross Listed Course(s):** DANC 4460

#### **HPL 4480 - Modern Dance IV**

**Credits:** 2

**Prerequisite(s):** HPL 3380 and Department Approval

**Description:** This course is for students with intermediate modern dance experience. An advanced intermediate movement foundation stressing alignment, strength, weight and performance presence will be covered.

**Cross Listed Course(s):** DANC 4480

#### **HSL 1030 - Skills and Methods of Teaching Physical Activities for Special Populations**

**Credits:** 2

**Description:** This course is intended for HPS majors and minors. The emphasis of this course is on sport and motor programs for special populations and programs related to those individuals with physical, mental, or multiple disabilities as well as the aging population. This course will include opportunities for experience in designing, implementing, and evaluating existing sports and physical activity programs for the disabled.

#### **HSL 1250 - Adaptive Aquatic Programs**

**Credits:** 2

**Prerequisite(s):** Current ARC WSI certification

**Description:** This course acquaints the student with various adapted aquatic programs and methods of teaching the mentally and/or physically disabled. The course leads to Red Cross Adaptive Aquatic certification.

#### **HSL 1340 - Skills and Methods of Teaching Rhythms for Special Populations**

**Credits:** 2

**Description:** This course emphasizes skills for the development, implementation, and evaluation of rhythmic activities for the handicapped in recreation and rehabilitation programs. The course will also cover a variety of adapted dance, and movement techniques for the auditorially and visually impaired, emotionally disturbed, physically handicapped, mentally handicapped, and the aged.

#### **HSL 1420 - Activity and Fitness Programs for the Elderly**

**Credits:** 2

**Description:** This course emphasizes skills for the development, implementation and evaluation of activities and fitness programs for older persons in various settings. This course will include opportunities for observation and involvement with various recreation agencies or health care facilities in the Denver area.

#### **HSL 1430 - Camping for Special Populations**

**Credits:** 2

**Description:** This class will provide information concerning methods and techniques applicable to camps for special populations and to outdoor recreational outings.

#### **HSL 1500 - Human Performance, Sport and Leisure Studies: Variable Topics**

**Credits:** 2

**Description:** These courses are required for human performance and sports and recreation professions majors and minors to meet departmental skill requirements in various physical behaviors. They also cover methods of teaching and field experience assignments. All HSL 1500 courses include a cognitive component with written and reading assignments, testing, and assigned laboratory activities.

### **Human Performance and Sport Theory**

#### **HPS 1010 - CPR/AED Recertification for the Professional Rescuer**

**Credits:** 1

**Prerequisite(s):** To participate in a review course, a student must be currently certified in CPR/AED for the Professional Rescuer or the equivalent. Certification will be verified at the first class meeting.

**Description:** This course is designed for students who have the interest or need to maintain CPR/AED for the Professional Rescuer level certification but do not require a full course. The review format is organized as an abbreviated course that briefly reviews course information and offers students the opportunity for skill practice prior to testing. Certification requirements are 80% on all written tests and demonstrated skill proficiency. Successful completion of this course will renew CPR/AED for the Professional Rescuer certification for two (2) years. To participate in a review course a student must be currently certified in CPR/AED for the Professional Rescuer or the equivalent. Certification will be verified at the first class meeting. This is a Red Cross Certification.

#### **HPS 1030 - Fitness and Well-being: Variable Topics**

**Credits:** 1

**Description:** A wide variety of 1 credit hour courses designed to cover critical aspects of fitness and well-being specifically focused on improving human performance. This course is designed for the interest of the general student body. Course may be repeated for credit as variable course topics change.

#### **HPS 1440 - Stress Management Techniques**

**Credits:** 3

**Description:** This course is designed to provide the student with an understanding of the elements of stress-induced conditions. The course provides strategies by which the student can learn to effectively manage stressful conditions.

## HPS 1623 - Introductory Sports Medicine Concepts

**Credits:** 3

**Description:** This course is designed to introduce students to etiologies, pathologies, and basic care of musculoskeletal injuries (e.g.; fractures, sprains, strains, contusions). Other topics covered in this course include the injury assessment process, environmental illnesses/injuries, emergency planning, risk reduction strategies and proper documentation.

## HPS 2021 - Physical Literacy and Society

**Credits:** 3

**Description:** This course allows the student to understand physical literacy and the impact of physical literacy on all populations and society across the world. Content covered includes the important correlation between physical literacy and overall wellness. A personalized approach is taken to assure students can gain the skills necessary to become physically literate and apply these skills throughout the semester and into the future. This course is part lecture and part activity as each student will develop and participate in their personal wellness and physical activity plan.

*Note: this course does involve low intensity activity for all ability levels*

**General Studies:** Social and Behavioral Sciences

## HPS 2060 - Emergency Rescue/First Responder & CPR

**Credits:** 3

**Description:** This course is designed for the professional and layperson to prepare them in emergency pulmonary resuscitation for infants, children and adults. This course will offer students the opportunity to develop skills and earn certifications in the following: American Red Cross Medical Responder, CPR/AED for the Professional Rescuer, Blood Borne Pathogens and Oxygen Administration.

## HPS 2080 - Physical Education Lab for the Elementary Teacher

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** ART 2040 or MUS 2040

**Description:** This laboratory course enables students to apply the content and methods of physical education, including the Colorado Model Content Standards for Physical Education, to elementary curriculum planning, implementation, and assessment. This is a course designed to acquaint students with theories, rationale, activities, and materials used to teach physical activities to children at the elementary school level. Appropriate methods for integrating physical education into the elementary curriculum will be explored.

## HPS 2160 - Water Safety Instructor Certification

**Credits:** 3

**Prerequisite(s):** American Red Cross Advanced Lifesaving Certification or Lifeguard Training Certification

**Description:** This course studies the methods of teaching water safety, skill analysis, and correction. Course leads to Red Cross

Water Safety Instructor Certification. Field experience assignments will be a required part of the class.

## HPS 2700 - Wellness Coaching I

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication and Quantitative Literacy Requirements

**Description:** This course is an introduction to the principles and tools of wellness coaching practice. Topics include scope of practice, ethics and values, effective communication, relationship building, and facilitating results to illuminate the discipline of wellness coaching. Research based techniques and best practices for facilitating behavior change are included.

*Note: Credit will be granted for only one prefix: HPS or ITP.*

**Cross Listed Course(s):** ITP 2950

## HPS 2720 - Fundamentals of Coaching

**Credits:** 2

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This entry-level class is designed to meet requirements for a three year Letter of Authorization for coaching in the State of Colorado from the Colorado High School Activities Association. This course provides an overview of knowledge and skills in principles of coaching. Students will learn to create a healthy and age appropriate athletic experience along with meeting the national standards for sport coaches based on the most recent National Association of Sport and Physical Education guidelines.

## HPS 3010 - Exploring School Health Education

**Credits:** 2

**Prerequisite(s):** "C" or better in ITP 1500, PETE 1601, PETE 2030, provisional or full acceptance to teacher education

**Corequisite(s):** HPS 3000

**Description:** This course is a companion course to and must be taken concurrently with HPS 3000 School Health Education This course integrates health content, theory, and conceptual aspects of the coordinated school health program in a 30-hour service learning experience. The student will participate with local agencies, non-profit organizations and/or school districts toward a common goal of creating a healthier school environment and healthier community.

*Note: Some sections of this course may be taught as Service Learning.*

## HPS 3300 - Anatomical Kinesiology

**Credits:** 3

**Prerequisite(s):** BIO 2310 with a grade of "C" or better

**Description:** This course examines the components of the human musculoskeletal system and the basic (qualitative) mechanics of human motion. Analysis of joint motion and the associated muscular involvement in various physical activities will be emphasized. Application of basic, qualitative principles of physics to the analysis of human motion will be examined. Additional emphasis is placed on

the relevance of this analysis to teaching effectiveness in the professional fields of physical education, athletic training, and exercise science.

#### **HPS 3340 - Physiology of Exercise**

**Credits:** 4

**Prerequisite(s):** BIO 2320, EXS 1640 or PETE 2030

**Description:** This course introduces the student to the physiological response of individuals to exercise as well as the application of these responses to sports medicine, rehabilitation, and general fitness. The laboratory provides experiences that demonstrate the underlying theoretical constructs that govern physiological responses to exercise.

*Note: Credit will be granted for only one prefix: HON or HPS.*

**Cross Listed Course(s):** HON 3341

#### **HPS 3700 - Psychology of Coaching**

**Credits:** 2

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy

**Description:** This course is designed for Human Performance and Sport majors and coaching minors. The purpose of the course is to orient prospective clinicians and coaches in the many aspects of sport and exercise psychology in order to be more effective when working in athletics. It offers the prospective coach, athletic trainer and exercise clinician the opportunity to train the client's mind to enhance sport development.

#### **HPS 3720 - Science and Art of Coaching and Athletic Administration**

**Credits:** 3

**Prerequisite(s):** HPS 2720

**Description:** Topics covered in this course include principal aspects of coaching pedagogy and the organizational planning techniques necessary for successful coaching. The student will apply coaching philosophy and sport administration principles as they apply to sport at various age levels.

#### **HPS 3750 - Study Abroad: Human Performance and Sport**

**Credits:** 3

**Prerequisite(s):** Sophomore standing, 2.5 GPA

**Description:** This is a variable topics course and involves study and visitation to historical and culturally rich selected international human performance and sport programs and locations. Students will compare international approaches to human performance and sport through a combination of the following: travel, site visits, tours, interactive educational activities, research in libraries of local institutions and lectures. Lectures may highlight current scientific and cultural themes, governance, management, marketing, sport operations & development, health & fitness initiatives, protocols, and collective sport activities.

**Cross Listed Course(s):** DANC 3750

#### **HPS 3835 - African Drum and Dance Ensemble**

**Credits:** 1

**Description:** This ensemble introduces the varied and rich musical traditions of Africa and the African diasporas through participation and performance. The course focuses on the development of a variety of drumming and dance techniques, while cultivating a program of pieces for performance at the end of the semester. No previous musical experience is required, and it is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

**Cross Listed Course(s):** DANC 3835, MUS 3835

#### **HPS 3980 - Internship in Human Performance and Sport**

**Credits:** 1-15

**Prerequisite(s):** Major in Human Performance and Sport; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Note: Variable Credit*

#### **HPS 3990 - Field Experience**

**Credits:** 1, 2, or 3

**Prerequisite(s):** Approval of instructor

**Description:** This course provides students with the opportunity to apply theoretical concepts of human performance and sport to a practical, on-site learning experience. This course includes 1 to 3 credit hours of field experience in a community agency, school, or professional organization.

#### **HPS 4500 - Motor Learning and Development**

**Credits:** 3

**Description:** The focus of this course will be an examination of motor learning principles and their role in the developmental stages of individuals. Emphasis is placed on the various aspects of perceptual motor control and environmental factors affecting skill acquisition.

**Cross Listed Course(s):** DANC 4500

#### **HPS 4660 - Legal Liability for Physical Educators, Coaches and Administrators**

**Credits:** 3

**Prerequisite(s):** HPS 2050, HPS 2070, Junior standing or permission of instructor

**Description:** This course is designed to provide an overview of the legal issues most often encountered in sport and physical activity. Topics include contract, labor, constitutional, and intellectual property law, with an emphasis on tort law. Content is tailored specifically toward the Human Performance and Sport disciplines. The law is applied to amateur, recreational, and professional sport environments as well as physical education and leisure activities

*Note: Credit will be granted for only one prefix: HON or HPS.*

**Cross Listed Course(s):** HON 4660

## HPS 4700 - Wellness Coaching II

**Credits:** 3

**Prerequisite(s):** ITP 2950 or HPS 2700; ITP 3850

**Description:** This advanced course in wellness coaching allows students to better understand ethics, professionalism, communication, behavior change, and coaching sessions. Students create coaching agreements, behavior change plans, and document interactions to support the eventual creation of a coaching business.

*Note: Credit will be granted for only one prefix: ITP or HPS.*

**Cross Listed Course(s):** ITP 4400

## HPS 4770 - Lower-Body Injury Rehabilitation

**Credits:** 2

**Prerequisite(s):** HPS 4750

**Corequisite(s):** HPS 4771

**Description:** This course will address the fundamental aspects and components of lower-body athletic injury rehabilitation programs. Emphasis will be placed on design and implementation of specific therapeutic exercise programs. This is one of the sequential professional preparation courses in the Athletic Training Education Program.

## HPS 4870 - Internship for Athletic Training

**Credits:** 10

**Prerequisite(s):** Senior standing, completion of all courses in major curriculum, 2.75 GPA, and completion of General Studies requirements.

**Description:** This internship is designed for Athletic Training Emphasis majors to provide experience in both a clinical and competitive setting. Graded as Satisfactory/Unsatisfactory.

**University Requirement(s):** Senior Experience

## HPS 4950 - Community Coaching for Health

**Credits:** 3

**Prerequisite(s):** HPS 4700 or ITP 4400 and Senior Standing

**Description:** Lifestyle medicine knowledge is meant to be applied in the community setting, in order to truly impact the health of others. This course will allow senior students to utilize their competencies in lifestyle medicine, wellness coaching, and patient navigation in the community. Through community and campus partnerships, students will have the opportunity to apply their skills in real-world situations to impact the health and wellbeing of clients. Students will complete a coaching log that may be utilized when applying for the National Board Certification for Health and Wellness Coaching. Professionalism, documentation skills, and refinement of their coaching skills will be emphasized.

**University Requirement(s):** Senior Experience

## Human Services and Counseling

### HSP 1010 - Introduction to Human Services

**Credits:** 3

**Description:** This class provides an overview of the Human Services

Profession. Students examine the attitudes, values, and skills crucial for becoming an effective Human Services Professional.

Understanding and working with various populations and cultural groups are essential for those working in Human Services. This course will examine various types of human service programs, research, program evaluation and current best practices in Human Services. Students will survey a variety of client populations and agencies.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### HSP 1020 - Introduction to Trauma Informed Care

**Credits:** 3

**Description:** Students will be introduced to the concept of Trauma-Informed Care (TIC) and how agencies and Human Services professionals can utilize this model to benefit clients. Students will describe and define what TIC is and ways in which a traditional treatment setting can be modified to increase the sense of safety experienced by clients and those who work with them. Students will learn how to incorporate trauma-informed practices into treatment with diverse populations, especially those with Posttraumatic Stress Disorder (PTSD). Although trauma treatment approaches will be considered, this class will not teach how to intervene using trauma specific treatment.

**General Studies:** Social and Behavioral Sciences

### HSP 1470 - Addictive Experiences: Sex, Drugs, Rock and Roll

**Credits:** 3

**Description:** In this class, students will examine addictive lifestyles and experiences in contemporary America in the context of theories of addiction. In addition, they will focus on the process of developing healthy habits and non-addictive lifestyles.

### HSP 2010 - Introduction to High-Impact Nonprofit Organizations

**Credits:** 3

**Prerequisite(s):** HSP 1010

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This survey course introduces the elements necessary for nonprofit organizations to achieve meaningful and lasting impact in their communities. Students will choose a single nonprofit to investigate throughout the semester, culminating in a report on the organization that includes suggestions for improving its impact. Some sections will be taught with a service-learning component.

*Note: Some sections of this course may be taught as Service Learning.*

### HSP 2020 - Small Group Dynamics: Theory and Experience

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent

**Description:** Students will be introduced to the basic theories of small groups with experiential learning experiences to develop skills and strategies for effective group participation and leadership. The

universality of feelings and concerns are shared to recognize the dynamics of interpersonal interaction, predict dynamics, accurately demonstrate effective leadership skills, and learn to facilitate the group process and interpersonal interactions in small-group situations.

### **HSP 2030 - Theory and Practice of Counseling**

**Credits:** 4

**Prerequisite(s):** HSP 1010; or permission of instructor

**Description:** This course familiarizes students with major theoretical approaches to counseling and psychotherapy and basic interview techniques. Emphasis will be placed on introducing behavioral intervention techniques common to most behavioral therapies. Students examine and practice effective interviewing skills and learn how to gather essential information about clients using the fundamental theories of counseling and psychotherapy.

### **HSP 2040 - Family Systems**

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This class provides a brief review of family systems and the roles of family members in traditional and nontraditional families. The theoretical basis of family therapy modalities that serve as guidelines for therapy is described.

### **HSP 2070 - Pre-Field Placement Seminar**

**Credits:** 1

**Prerequisite(s):** ENG 1009 or ENG 1010 and HSP 1010 or permission of instructor

**Description:** The Pre-Field Placement Seminar is designed to support student success in human services field placement experiences. Students will learn what to expect from and how to prepare for a field placement as well as develop a resume and participate in a mock interview process. Students will engage in an active learning process to begin to define their own learning goals and relate those goals to the selection of an appropriate field placement site.

### **HSP 2080 - Human Services Practicum I**

**Credits:** 8

**Prerequisite(s):** HSP 1010; HSP 2010 or HSP 2020; HSP 2030 or HSP 3810; HSP 2070 and HSP 2330 or permission of field coordinator

**Description:** This practicum provides a beginning field experience in a human service agency or setting. In addition to the field service hours, students participate in an interactive seminar that supports the effectiveness of student learning at the placement site and allows students to apply theoretical knowledge learned in the core human services curriculum to real life situations and experiences. Students participate in a variety of hands-on activities to develop clinical and/or nonprofit management skills depending on the nature of the placement.

### **HSP 2105 - Foundations of Trauma Counseling**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** HSP 1020 or permission of instructor

**Description:** In this class, students will develop a foundation for understanding trauma counseling utilizing various evidenced based theories and models. Students will be introduced to the impact of trauma on the cognitive, affective, behavioral, and neurological functioning of the individual. In addition, emphasis will be placed on the importance of the therapeutic relationship in the efficacy of treatment. Foci will include an overview of multidisciplinary teams in the treatment of trauma, as well as a focus on cultural humility, healthy boundaries, and self-care on the part of the professional treating clients diagnosed with trauma.

### **HSP 2760 - Social Media for Social Change**

**Credits:** 3

**Description:** As a nonprofit, it is increasingly imperative to have a presence on social media. Social networking sites allow nonprofits to manage their brand reputations, engage with their audiences, inform clients about products and services, gain insightful data on the interests of followers, and advocate for their constituents and communities. This course will provide an overview of best practices when creating, managing and reviewing a nonprofit's social media presences, and enable students to launch successful marketing, event, fundraising and advocacy campaigns using social media.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 2780 - Building A Sustainable Nonprofit**

**Credits:** 3

**Prerequisite(s):** HSP2010

**Description:** One of the biggest challenges facing nonprofit organizations is sustainability. This course will provide students with the fundamental principles of nonprofit sustainability as well as hands-on practice in: analyzing an organization's sustainability, addressing some of the primary challenges to sustainability, and making recommendations to create a more sustainable future.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 3000 - Community Change in Human Services**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This course reviews the theories and techniques of organizing groups to promote change in the community, and the role community organizers and other human service professionals play in community change. The course examines several distinct contexts for change and why and how change occurs or fails to occur. Strategies and tactics for promoting change are also included.

### **HSP 3040 - Brief Therapy for Couples**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG

1021, HSP 1010, HSP 2030, and HSP 2040; or permission of instructor

**Description:** Students will study the counseling of persons involved in emotionally intimate relationships from the perspective of childhood experiences with parents or other primary caretakers. Topics covered will include the influence on the clients of emotional abandonment, childhood wounds, male and female issues, and the tendency to project unmet childhood needs onto adult relationships. Counseling interventions to improve the communication skills of couples will be addressed.

### **HSP 3070 - Advanced Behavioral Analysis**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course explores applications of the scientific method, the principles and the technology of behavior analysis to understand, explain, and change human behavior.

### **HSP 3090 - Human Services Practicum II**

**Credits:** 8

**Prerequisite(s):** HSP 2070; HSP 2080; HSP 2330

**Description:** This practicum provides a field experience in a human service agency or setting. These experiences are all in conjunction with the Addictions concentration offered in the Human Services major. In addition to the field service hours, students participate in an interactive seminar that supports the effectiveness of student learning at the placement site and allows students to apply theoretical knowledge learned in the core human services curriculum to real life situations and experiences. Specifically, students will address topics like co-occurring disorders, clinical note skills, transference and counter-transference, and clinical assessments. Students participate in a variety of hands-on activities to develop clinical skills depending on the nature of the placement. Students in Addiction Studies complete these hours with Colorado Addiction Counselor (CAC III) supervisors providing direct feedback.

### **HSP 3105 - Exploring the Impact of Trauma Counseling**

**Credits:** 3

**Prerequisite(s):** HSP 2105

**Description:** Students will have an in-depth examination of the impact of early childhood trauma as well as the impact of trauma on all aspects of functioning (e.g., emotional, cognitive, behavioral, physical). Students will examine ethical considerations when working with traumatized clients as well as focus on documentation and note writing for counselors. Students critically examine their own motivations for joining the field of trauma and develop a plan to identify and address vicarious trauma.

### **HSP 3210 - Organizing and Advocacy for Social Change**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication

**Prerequisite(s) or Corequisite(s):** HSP 2010

**Description:** This course reviews the theories and techniques of organizing groups to promote change in the community and the role that community organizers and other human service professionals play in community change. The course examines several distinct contexts for change and why/how change occurs or fails to occur. Strategies and tactics for promoting change, including policy advocacy, are also included.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 3220 - Conflict Resolution and Decision Making**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** Students in this class will examine why conflict is unavoidable and how viewing it this way can remove the fear that keeps individuals from approaching it directly and positively. An analysis of the psychological roots of intractable conflict will help students gain knowledge and skills to resolve conflict effectively. Students will also learn about the use of negotiating skills in leadership situations.

### **HSP 3230 - High Risk and Offender Youth**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This course is designed to provide an overview and analysis of differential theory and approaches to working with high risk and offender youth. Special emphasis will be given to the role of community, family and youth-specific risk and protective factors. Prevention of not only alcohol and drug problems, but other serious contemporary youth issues, such as violence, teen pregnancy, sexually transmitted diseases, suicide, and school drop-out, will be addressed. Special topics will also include multicultural issues, intervention techniques, and innovative alcohol- and drug-treatment approaches found to be particularly effective with this population.

### **HSP 3260 - Systems Serving Youth**

**Credits:** 2

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2040; or permission of instructor

**Description:** This is an advanced course designed to introduce the potential youth advocate counselor to the range of issues, services, and systems involved in the care and treatment of high-risk youth including: alcohol and drug treatment; mental health; education; social services; law enforcement; vocational/employment; and others. The course focus is on understanding and building interdisciplinary partnerships on behalf of youth in a variety of professional contexts. An emphasis is on learning to work effectively across and between systems as well as within them.

### **HSP 3330 - Ethical and Legal Issues in Human Services**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written

Communication and HSP 1010

**Description:** Students in this course gain a basic understanding of the legal and ethical issues in the human services profession and provides an opportunity for students to apply standards from codes of ethics as well as laws in situations that often arise in agencies providing case management and counseling. Students will analyze and evaluate ethical case studies, apply knowledge contextually and develop skills to recognize ethical challenges in the work place.

### **HSP 3400 - Pharmacology of Drugs and Alcohol**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This is a course in the composition, classification, effects, uses, and abuses of drugs and alcohol. Students learn the ways that psychoactive substances impact the central nervous and immune systems. Related social and political issues are integrated into the course content.

### **HSP 3430 - Addictive Behaviors**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course provides a detailed study of specific addictive behavior patterns and the most common treatment methods. The range of addictions studied includes a variety of non-substance-using behaviors, such as gambling and eating disorders, as well as addictions involving substances. This course will help students clarify a theory of addiction, gain knowledge about the etiology of specific addictions and be introduced to current treatment approaches utilized in the field.

### **HSP 3450 - Crisis Intervention**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course focuses on crisis intervention. Course work is designed to give the student an opportunity for competencies development, and increased understanding of emergency procedures and therapeutic interventions.

### **HSP 3460 - Addiction, Immunity, and Infectious Diseases**

**Credits:** 2

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This course emphasizes diseases and health issues including communicable and sexually transmitted diseases that are most likely to affect addicted individuals. This course addresses health issues found among individuals who might abuse mind-altering chemicals. Students perform risk assessments and prepare educational materials for clients. Satisfactory completion of this course meets the infectious disease course requirement for Colorado Certified Addiction Specialist (CAS).

### **HSP 3470 - Counseling the Substance Abuser**

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course is specifically oriented to assessing and counseling the addicted client. Course work is designed to provide the trainee with knowledge of and experience in applying the fundamentals of research, evidence-based treatment, client assessment, treatment planning, client records, and individual counseling skills. Satisfactory completion of the course will meet the requirements for Principles of Addiction Treatment, Client Record Management, and Addiction Counseling Skills for Colorado Addiction Counselor Certification and Domestic Violence Counselor Certification.

### **HSP 3490 - Multicultural Issues in Human Services**

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 1010; or permission of instructor

**Description:** This course stimulates students' awareness and appreciation of cultural diversity in the United States. Students learn about the effects of historical oppression of African, Asian, European, Hispanic, and Native American people. This course will also examine the trauma and impact of bias, prejudice, and discrimination based on gender, disabilities, sexual orientation, religious affiliation, and age. Emphasis is placed on awareness of cultural diversity in professional interactions.

*Note: Credit will be granted for only one prefix: HON or HSP.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3490

### **HSP 3500 - Domestic Violence: Patterns of Relationship Abuse**

**Credits:** 2

**Prerequisite(s):** Meet General Studies requirement for written communication

**Description:** Students in this course will explore the behavior patterns between individuals and within families where domestic violence occurs. Relationship patterns will be examined through the study of victims, perpetrators and children within the family. Socialization patterns, developmental stages and psychopathological states which impact violence between partners and family members will be explored along with treatment issues and approaches.

### **HSP 3510 - The People of Nonprofits: Staff, Board, Volunteers, Clients and You**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication

**Prerequisite(s) or Corequisite(s):** HSP 2010

**Description:** The course examines the human component and capital of the nonprofit sphere. Roles, responsibilities, rules, and regulations are all explored as they relate to self, staff, board members, volunteers, clients and outside agency partners. Students will explore their unique strengths and build respective strategies to employ

throughout their careers. The course examines the human component and capital of the nonprofit sphere. Roles, responsibilities, rules, and regulations are all explored as they relate to self, staff, board members, volunteers, clients and outside agency partners. Students will explore their unique strengths and build respective strategies to employ throughout their careers. Some sections of this course may be taught as service learning.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 3550 - Intimate Partner Violence**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course will provide information about intimate partner violence (IPV) or domestic violence (DV). Students will learn about the complex nature of IPV, the history of IPV, causes of IPV, how offenders think and use power and control over their intimate partners and how survivors (victims) respond and overcome IPV. This class will also focus on the other barriers that impact the ongoing nature of IPV.

### **HSP 3560 - Motivational Interviewing**

**Credits:** 2

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, or permission of instructor

**Description:** This course describes the change process in clients and prepares the counselor to identify readiness for change. Students are taught interviewing skills specific to various stages of recovery and relapse. The focus of the process taught is to minimize or avoid resistance and to promote essential changes in substance abuse or domestic violence clients.

### **HSP 3570 - Case Management in Human Services**

**Credits:** 2

**Prerequisite(s):** ENG 1010, ENG 1020, HSP 1010, and HSP 2330; or permission of instructor

**Description:** This course will provide an opportunity to evaluate treatment as a part of a coordinated system that includes evaluating client needs and providing links with needed services, including physical health, behavioral health, and social services. Students will learn the process of identifying specific client needs and supporting clients in meeting identified needs and treatment goals.

### **HSP 3575 - Motivational Interviewing for Health Professionals**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Motivational Interviewing (MI) is an evidence based counseling intervention to assist clients in the change process. It is most helpful in working with clients struggling with ambivalence. This course reviews the theory and practice of MI as it relates to the health professions. The course prepares healthcare workers with the skills to properly identify clients' readiness for change and implement appropriate and effective communication strategies to assist them in

their change process. This course does not meet the criteria for CAC credentials. Students needing CAC credit should enroll in HSP 3560 - Motivational Interviewing.

### **HSP 3580 - Therapeutic Resistance**

**Credits:** 1

**Prerequisite(s):** Meet General Studies requirement for written communication, HSP 1010 and HSP 2030

**Description:** Students in this class will gain an understanding of therapeutic resistance in the counseling process from both the perspective of the client and the counselor. Various factors that contribute to therapeutic resistance are examined along with models to practice overcoming clinical resistance.

### **HSP 3590 - Counseling the Resistive Adolescent Client**

**Credits:** 2

**Prerequisite(s):** Meet General Studies requirement for written communication

**Description:** In order to be effective in working with youth, students must understand how to counsel resistive and ambivalent adolescents. In this class, students will learn how to apply principles related to working with resistance, building rapport, approaches to dealing with anger in the context of understanding the stages of change model, and gain an understanding of cultural nuances in effective counseling. Various therapeutic models will be examined and demonstrated including trauma informed care and strengths based counseling.

### **HSP 3600 - Domestic Violence: Perpetrators of Abuse**

**Credits:** 2

**Prerequisite(s):** Meet General Studies requirement for written communication

**Description:** Students in this course will explore the behaviors and attitudes of perpetrators, the cycle of violence, intergenerational violence and the impact of violence on the lives of perpetrators and victims. Students will learn about legal issues, risk assessment, and offender management and containment.

### **HSP 3610 - Financial Accountability and Organizational Control in Nonprofit Organizations**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 2010; or permission of instructor

**Description:** The course will include the skills needed to properly manage financial resources and organizational controls in a variety of nonprofit organizations. Topics will include financial record keeping systems and statements, budgeting, tax compliance, cost control, and program accountability and evaluation.

### **HSP 3660 - Advanced Motivational Interviewing and Applied Counseling Skills**

**Credits:** 2

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; or permission of instructor

**Prerequisite(s) or Corequisite(s):** HSP 3560 or permission of instructor

**Description:** This course prepares students to provide advanced individual counseling in behavioral health services. The course will review the principle of Motivational Interviewing and provide Advanced Motivational Interviewing and other techniques for students to practice counseling with other students. Students will experientially focus on skill demonstrations and giving and receiving appropriate feedback. Satisfactory completion of the advanced skills will meet the Colorado Certified Addiction Counselor III requirement.

### **HSP 3710 - Research Methods and Program Evaluation in Human Services**

**Credits:** 4

**Prerequisite(s):** ENG 1020, HSP 3330 or permission of instructor

**Description:** Students will explore the many ways to study a research question, how to select the best method of investigation, how to safeguard the rights of participants, how to analyze data, report their findings, and the limitations of research. In addition, students will learn the essentials of program evaluation and its required steps. This course will allow all the students to design and complete a small research study or support the research interest of a program in the community. Finally, the students will be required to present their research projects.

*Note: Credit will be granted for only one prefix: HSP or HON.*

**Cross Listed Course(s):** HON 3710

### **HSP 3800 - Federal Law Enforcement**

**Credits:** 3

**Prerequisite(s):** CJC 1010 and CJC 2210 OR CJC/CYB 2500

**Description:** Students in this course will examine the United States federal law enforcement system by focusing on the various federal agencies and their relationships with the criminal justice system, including historic foundations and emerging issues. The relationships between federal and local/state/private law enforcement are presented within the context of administrative partnerships, collaborative efforts, and unified missions that pertain to domestic and international crime threats, homeland security collaborations, and delivery of services to include technological advances.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** CJC 3800

### **HSP 3810 - Fundraising Strategies for Nonprofit Organizations**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication

**Prerequisite(s) or Corequisite(s):** HSP 2010

**Description:** Students in this course will examine the various strategies used by nonprofit organizations to raise funds for operating, program, and capital needs. Topics explored include direct mail, planned giving, individual solicitation, workplace giving, special events, and major gift campaigns.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 3860 - Social Entrepreneurship**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and General Studies Quantitative Literacy and Junior standing.

**Description:** This course provides an overview of social entrepreneurship, explains the skills required to identify unmet social needs and analyze their potential for solution with a viable social enterprise.

*Note: Students may receive credit for only one prefix: HSP or MGT.*

**Cross Listed Course(s):** MGT 3860

### **HSP 3940 - Victim Advocacy for Survivors of Interpersonal Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 and six additional hours in Gender, Women and Sexualities Studies or HSP 1010 and six additional hours in Human Services

**Description:** This course provides a foundation to the field of interpersonal violence victim advocacy to complement trainings provided by local victim advocacy agencies and police departments. The primary focus is victim advocacy as it relates to interpersonal violence (i.e., relationship violence, sexual violence, and stalking). This course helps prepare students to engage in advocacy by providing a broad understanding of the role of power and control in violence and its root causes, the historical perspective on anti-violence movements, the impact of trauma and biopsychosocial considerations, intersectional identities and vulnerability, laws and policies surrounding interpersonal violence, methods of justice and healing, community activism, and resources available to survivors.

*Note: Credit will be granted for only one prefix: GWS or HSP.*

**Cross Listed Course(s):** GWS 3940

### **HSP 3980 - Internship in Human Services**

**Credits:** 1-15

**Prerequisite(s):** Major in Human Services; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **HSP 3990 - Study Abroad: Human Services**

**Credits:** 3

**Description:** This course involves the study and visitation of distinct, select Human Services programs and agencies in Scotland. Students will have an opportunity to compare these services to those offered in the United States through travel, site visits and lectures about

addictions interventions, the treatment of people involved in gangs, the mental health and criminal justice systems and social services.

### **HSP 4030 - Grantwriting for Social Change**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, and HSP 2010; or permission of instructor

**Description:**

Grant writing is a fundamental skill for many nonprofit positions from executive directors to program managers to fundraisers to volunteers. This course will provide participants with hands-on experience in each aspect of the grant writing process, including identifying prospective funders, framing compelling arguments, conducting supporting research, developing a complete grant proposal, and presenting proposal ideas. Some sections of this course may be taught as service learning.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 4040 - Cognitive Behavior Therapy**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course examines the early and current development of cognitive behavior therapy as pioneered by Drs. Aaron Beck and Albert Ellis. Cognitive behavior has become one of the most widely used therapies during the last two decades. Students will apply C.B.T. by examining thoughts and beliefs connected to moods, behaviors, physical experiences, and events.

### **HSP 4105 - Advanced Trauma Counseling Skills**

**Credits:** 3

**Prerequisite(s):** HSP 3105

**Description:** Students will be provided an overview of the evidence-based screening and assessment tools utilized in assessing the impact of trauma. Interventions for working with individuals with a trauma history are emphasized. Students will examine and explore special populations uniquely impacted by trauma. Tools for avoiding compassion fatigue such as clinical supervision and boundary maintenance will be reviewed. Students will be expected to demonstrate advanced trauma counseling skills, interventions, and documentation.

### **HSP 4160 - Human Trafficking**

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to

curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 4160, CJC 4160, GWS 4160, HON 4160, HSP 4160, SWK 4160

### **HSP 4200 - Child Abuse and Neglect**

**Credits:** 2

**Prerequisite(s):** Meet General Studies requirement for written communication, HSP 2040

**Description:** Students in this course will gain an historical understanding of child abuse, neglect, and sexual exploitation. We will also look at some of the social and psychological factors related to healthy and unhealthy sexual behavior, while recognizing the social and cultural influences on how we study, view, research and understand child sexual abuse.

### **HSP 4250 - Counseling the Gay, Lesbian, Bisexual, or Transgender Client**

**Credits:** 2

**Prerequisite(s):** Meet general studies requirements for written communication

**Description:** Students in this course will explore lifestyle patterns and therapeutic issues related to sexual and gender identity. Students will learn about the potential impact of homophobia (external and internal), homo-negativity, heterosexism, and historic oppression on gay, lesbian, bisexual, and transgender individuals. Emphasis will be placed on creating a supportive environment for diverse GLBT clients and developing an awareness of community resources

### **HSP 4290 - Posttraumatic Stress Disorder and Trauma Informed Care**

**Credits:** 1

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021 and HSP 2030; or permission of instructor

**Description:** This course explores the causes and symptoms of PTSD and trauma informed treatment. The relationship of the disorder to substance abuse and violence in the form of domestic disturbances is studied along with interventions and treatment.

### **HSP 4300 - Trauma Resilience to Terrorism, Disaster and War**

**Credits:** 1

**Prerequisite(s):** Meet General Studies requirement for written communication

**Description:** With the increase of terrorist events, catastrophic disasters and war worldwide, it is important to prepare and be ready to respond to catastrophe. Students will learn about trauma resilience. The topics covered in this class include preparedness, intervention, and mitigation. Students will learn how to assist others in catastrophic situations.

### **HSP 4310 - Human Resource Development in Nonprofit Organizations**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication

**Prerequisite(s) or Corequisite(s):** HSP 2010

**Description:** Students in this course engage in a comprehensive study of the use of human resources in a variety of roles within nonprofit organizations, including hiring and retention, staff development and evaluation, and labor management issues.

### **HSP 4320 - Psychopathology and the Mental Health Clinician**

**Credits:** 4

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, and HSP 2030; or permission of instructor

**Description:** This course introduces and describes psychopathology nomenclature so that students will be able to recognize psychopathology. Biological, psychosocial, and sociocultural etiological perspectives of psychopathology will be discussed. The course will introduce the basic treatment approaches and critically analyze the advantages and disadvantages of mental disturbance labeling and societal implications.

### **HSP 4360 - Interpersonal Psychotherapy**

**Credits:** 3

**Prerequisite(s):** Meet General Studies requirement for written communication, HSP 1010, HSP 2030, HSP 2040

**Description:** This advanced theory and application skill development course focuses on the application of interpersonal psychotherapy utilizing attachment theory premises of psychological development and its influences on interpersonal relations. Learning these interventions will solidify student's competencies in assisting clients beyond introductory courses in the theory and practice of counseling.

### **HSP 4450 - Nonprofit Financial Management and Financing**

**Credits:** 3

**Prerequisite(s):** HSP 2010 or permission of instructor

**Description:** This course will prepare potential nonprofit leaders and program managers to understand, plan and manage the money side of their organizations and programs, including how to raise money and how to manage it. Students will review strategies for grants, donations, impact investment and earned income, as well as the principles of budgeting and accounting for nonprofits.

*Note: Some sections of this course may be taught as Service Learning.*

### **HSP 4490 - Contemporary Issues in Human Services: Variable Topics**

**Credits:** 1-4

**Prerequisite(s):** At least junior standing or Permission of instructor

**Description:** This is a variable-titled course focusing on current issues and trends in the field of human services. The course is designed to provide the human services professional with an opportunity to explore new or alternative modalities in assessment, intervention, and treatment of dysfunctional behaviors.

*Note: This course may be repeated for credit under different topics.*

### **HSP 4520 - Grief Counseling**

**Credits:** 3

**Prerequisite(s):** Meet General Studies requirement for written communication

**Description:** Loss is a natural consequence of living. Losses come in many forms, from divorce and aging to illness and death. Understanding grief, loss, change and mourning is an integral part of understanding the human condition as it will present itself in a clinical setting. Students will gain an academic framework for understanding grief, as well as the experiential skills and self-awareness necessary to be an effective and compassionate clinician.

### **HSP 4540 - Youth, Drugs, and Gangs**

**Credits:** 2

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, HSP 2030, and HSP 2040; or permission of instructor

**Description:** Child abuse, neglect, and substance abuse are underlying issues for gang members. This course explores the reasons youth are attracted to and join gangs and the correlation between psychoactive substances and violence.

### **HSP 4660 - Clinical Supervision in Human Services**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 1010, HSP 2030, HSP 3470, and HSP 3560; or permission of instructor

**Prerequisite(s) or Corequisite(s):** HSP 3660

**Description:** This course will provide students with theoretical principles and practical application of clinical supervision in the human services field. The course will address specific regulatory requirements of clinical supervision. Evidence-based support for counseling and clinical supervision will be addressed. Satisfactory completion of this course meets the Clinical Supervision course requirement for Colorado Addiction Counselor III (CAC III) certification and the requirement for Domestic Violence Counselor Supervisors.

### **HSP 4710 - Critical Issues for Nonprofits**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 2010, and one of the following: HSP 3210, HSP 3610, HSP 4030, or HSP 4310; or permission of instructor

**Description:** The course investigates and analyzes the critical economic, political, and social issues affecting the nonprofit sector.

### **HSP 4770 - Human Services Internship I**

**Credits:** 8

**Prerequisite(s):** HSP 1010; HSP 1020, HSP 2010 or HSP 2020; HSP 2030 or HSP 2780 or HSP 3510; HSP 2070, HSP 3330 and HSP 3490 or permission of field coordinator

**Description:** This Internship provides a beginning field experience in a human service agency or setting. In addition to the field service

hours, students participate in an interactive seminar that supports the effectiveness of student learning at the placement site and allows students to apply theoretical knowledge learned in the core human services curriculum to real life situations and experiences. Students participate in a variety of hands-on activities to develop clinical and/or nonprofit management skills depending on the nature of the placement.

**University Requirement(s):** Senior Experience

### **HSP 4780 - Human Services Internship II**

**Credits:** 8

**Prerequisite(s):** Senior status, all general studies, HSP 3560, HSP 3710, HSP 4770

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

**University Requirement(s):** Senior Experience

### **HSP 4790 - Human Services Internship III**

**Credits:** 6 or 12

**Prerequisite(s):** Human Services major, Senior standing, Addictions concentration, HSP 4780

**Description:** This course is the culmination of training for the bachelor's degree in Human Services with a concentration in addiction counseling. Students demonstrate readiness for professional employment while in a supervised placement within an addictions human service agency or other nonprofit organization. Students integrate knowledge, skills, values and ethics required for successful field placement.

**University Requirement(s):** Senior Experience

### **HSP 4800 - Designing the 21st Century Nonprofit Organization**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, HSP 2010, HSP 3210, and HSP 3810 or HSP 4030; or permission of instructor

**Description:** In this course students will participate in designing a model nonprofit organization (NPO) through assessment of community needs and in consideration of current economic and political factors and philanthropic trends. Students will design program activities, determine staffing and human resource needs, identify funding resources and marketing strategies, and establish financial parameters of the NPO based on its mission and values.

## **Industrial Design**

### **IND 1000 - Introduction to Industrial Design**

**Credits:** 1

**Description:** This course defines, describes, and explains opportunities in the field of industrial design. It identifies and allows for the discussion of career options, evaluates employment trends in the field, and reviews academic and professional requirements for entry into the field. Instruction and background in the use of the design process for industrial design is also provided.

### **IND 1010 - Woods: Materials and Fabrication**

**Credits:** 3

**Description:** An introductory course designed to give the student basic information about wood material properties, species selection criteria, practical design applications, and ordering and specifying protocol. The design process is presented and applied in the development of a furniture design and a fabrication plan, which is utilized to construct the design. The course also provides instruction for basic skill development in the use of wood working tools, machines, and processes. Wood finishing materials and processes are also studied and utilized in student projects.

*Note: Credit will be granted for only one prefix: IND or ART.*

**Cross Listed Course(s):** ART 1300

### **IND 1100 - Materials I: Materials and Fabrication**

**Credits:** 3

**Description:** This course is an introduction to working safely and efficiently with tools in the woods, metals, and plastics labs. Students will study basic information about material properties and learn fundamental fabrication and finishing techniques through various simple design projects incorporating wood, metal, and plastic materials. Lectures will also cover shop tools and considerations, along with safety and emergency procedures.

### **IND 1130 - Plastics: Materials and Fabrication**

**Credits:** 3

**Description:** This course is an introduction to the basic manufacturing processes and techniques used in the plastics industries. A variety of forming, casting, and reinforced plastic processes will be examined.

### **IND 1250 - Metals: Materials and Fabrication**

**Credits:** 3

**Description:** This course covers the manipulation of sheet metal, machining of metals, welding of metals, fasteners, and bench metal working. Finishing of metals is also covered, including mechanical processes, sandblasting, polishing, and painting techniques. Emphasis is placed on factors necessary to create products that involve metals and metal components. The design process is introduced and applied in the development of short-term design projects.

### **IND 1300 - Materials II: Design and Application**

**Credits:** 3

**Prerequisite(s):** IND 1100

**Description:** This studio and lecture course helps students apply

advanced woods, metals, and plastics fabrication techniques to create original products. Students design and manufacture items in response to an assigned design brief through appropriate design considerations and material selection. The design process is documented throughout the semester to generate a detailed set of construction drawings and presentation materials.

### **IND 1450 - Technical Drawing and CAD**

**Credits:** 3

**Description:** An introductory course designed to give students information about creating production drawings. The technical drawing process is presented and applied to a variety of products using both manual drafting tools and computer software. Additional topics include hand lettering, orthographic projections, Geometric Dimensioning and Tolerancing (GD & T), and creating Computer Numerical Controlled (CNC) data for part production. The design process is addressed with the aid of a short-term design project with accompanying technical drawings and CNC production.

### **IND 1470 - Design Drawing Techniques**

**Credits:** 3

**Description:** This course introduces students to the basic concepts and skills used in industry to communicate ideas through a hand-drawn, two-dimensional format. Students will develop drawing skills which represent objects as the eye sees them using perspective, shading, and a variety of graphic techniques. Instruction and practice incorporates the study of visual reality, graphic form, visual impact, and the logic and proof of what we see.

### **IND 2000 - Design Aesthetics**

**Credits:** 3

**Prerequisite(s):** IND 1000

**Description:** Students will investigate and practice the basic visual elements and principles of design through both 2D and 3D approaches. Emphasis will be placed on form development and visualization techniques.

### **IND 2100 - Digital Composition**

**Credits:** 3

**Prerequisite(s):** IND 1000

**Description:** This lecture/lab course prepares students to capture their original works digitally with various documenting equipment and to edit them with computer software. Studio and location photographic projects require students to use the camera for documentation, research and communication. Visual compositions that include digital and nondigital elements and presentation page layout principals will be introduced and practiced for students' department portfolio review preparation.

### **IND 2450 - Beginning Industrial Design Studio**

**Credits:** 4

**Prerequisite(s):** ART 1101, ART 1141, IND 1300, IND 1450, IND 2100, and IND 3050

**Prerequisite(s) or Corequisite(s):** ART 1501, IND 3480, and IND 3660

**Description:** In laboratory and studio environments, the design process is introduced and practiced as students apply learned fundamental skills, critical thinking, problem solving, and aesthetic refinement to assigned design projects. Students are required to address the historical context of their designs as they research technological evolution, market trends, aesthetic preferences, and consumer behavior. Students are required to document their work and create page layouts that depict and describe their projects according to the Department portfolio screening criteria.

### **IND 2455 - Industrial Design Studio for Non-Majors**

**Credits:** 3

**Prerequisite(s):** IND 1000, IND 1100, IND 1300, IND 1450, and IND 1470

**Prerequisite(s) or Corequisite(s):** IND 1130, IND 2830, IND 3950

**Description:** This course is for non-majors. In laboratory and studio environments, the design process is introduced and practiced as students apply fundamental principles to three-dimensional forms, structures, and products. Students address the historical context of their designs as they practice critical thinking, research, problem solving and aesthetic refinement. Students create sketches, drawings, models, research reports and presentation of their design concepts.

### **IND 2810 - Technology and Design: Global Perspectives**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** This course teaches students about the relationship between technology, design, and global cultures. Historical perspectives provide a foundation for discussion about how technology and design have affected, and continue to affect, the daily lives of people throughout the world. Emphasis is placed on relevant technologies developed in societies outside the U.S., and on the effects that those technologies have had on global societies, including the U.S. Particular attention is paid to communications, product design, food production, work and jobs, transportation, the military, sustainability, and ethical issues.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS3

### **IND 2830 - Manufacturing Materials and Processes**

**Credits:** 3

**Description:** This course provides an overview of a wide range of mass-production manufacturing methods and materials most commonly utilized by industrial designers. It provides students with knowledge that will enable them to make appropriate material, manufacturing, and finishing selections for their own designed products.

### **IND 3000 - Design Thinking**

**Credits:** 3

**Description:** Design thinking methodology teaches a holistic

approach of innovative way of solving problems. Multiple design projects will be utilized to help students develop creative thinking skills, to gain knowledge of design thinking, and to practice a wide range of innovative problem-solving methods for business and manufacturing applications.

### **IND 3050 - Advanced Sketching**

**Credits:** 3

**Prerequisite(s):** IND 1470

**Description:** In this course students will develop rapid visual communication skills through traditional sketching techniques and gain experience with various media. This course will develop students' abilities to quickly capture their design ideas by depicting 3D volumes on a 2D plane. Various rendering techniques in mixed media will also be explored to develop skill in representing color, texture, and material.

### **IND 3100 - Composites: Materials and Fabrication**

**Credits:** 3

**Prerequisite(s):** IND 1130 or permission of instructor

**Description:** This course is a combination lecture/studio course that employs hands-on exercises and project fabrication to address various aspects for designing objects made of advanced composites, assessing the constraints of composites-related designs, and apply these topics through construction of a self-directed final project.

### **IND 3200 - Bicycle Design and Fabrication**

**Credits:** 3

**Prerequisite(s):** IND 1010, IND 1130, IND 1250, IND 1450, IND 1470

**Description:** A lecture and laboratory course providing instruction in the history of the bicycle, requiring research into appropriate building materials for bicycles, and that will provide students an opportunity to design and fabricate a working prototype based on that research. The course will also provide instruction and practice of the basic metal fitting skills and subsidiary tooling required to fabricate a working bicycle prototype and selection of material appropriate finishes.

### **IND 3260 - Direct Digital Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 1210 or IND 3660 with a grade of "C" or better

**Description:** In this combination lab lecture course, students explore the latest applications of digital 3D scanning and direct digital manufacturing. Through this course, students are introduced to current developments and the critical challenges of digital 3D technologies. Emphasis is placed on practical experience in utilizing departmental equipment to produce digital 3D tiles and output them to appropriate direct digital manufacturing equipment. Students will apply knowledge of 3D scanners for reverse engineering and direct digital manufacturing purposes.

*Note: Credit will be granted for only one prefix: IND or MET.*

**Cross Listed Course(s):** MET 3260

### **IND 3330 - Furniture Design**

**Credits:** 3

**Prerequisite(s):** IND 1010 or ART 1300; IND 1450

**Description:** This lecture/lab course employs furniture fabrication projects to address the furniture design process, aesthetic design issues, structure, ergonomics, functionality, materials technology and manufacturability. Students utilize the design process to formulate concepts, communicate those design concepts, and fabricate a quality furniture piece based on their research and design solutions.

### **IND 3400 - Product Usability and Ergonomics**

**Credits:** 3

**Prerequisite(s):** IND 2450 or instructor's approval

**Description:** This combination lecture and laboratory course stresses the importance of user interaction with products as a measure of product market viability and manufacturability. User interface components, anthropometrics and psychologically intuitive design solutions for manufacture are addressed in the course.

### **IND 3450 - Intermediate Industrial Design Studio**

**Credits:** 4

**Prerequisite(s):** IND 2450

**Description:** Students will produce functional, aesthetic designs for mass-market consumer products. Students will also learn and adapt the design developmental process used in industry. This includes finding and analyzing problems, conducting and documenting research, generating and proposing concepts, and presenting solutions in public. Projects emphasize materials, manufacturing methods, concept visualization, market relevance, and historical context.

### **IND 3480 - Industrial Design Model Making**

**Credits:** 3

**Prerequisite(s):** IND 1100, IND 1300, or permission of instructor

**Description:** In a studio and laboratory environment, students will gain experience with a variety of model making techniques and materials. Students will learn to construct different levels of design models, from form study mockups in various scales to presentation quality models. Students will also learn how to use them to evaluate and communicate product design concepts.

### **IND 3550 - Textiles: Materials and Fabrication**

**Credits:** 3

**Prerequisite(s):** IND 1450, IND 1470

**Description:** In this course, students are provided with instruction in textile material characteristics, selection criteria, and appropriate textile design applications. The course will also provide an opportunity for basic skill development in fabrication techniques, including the use of sewing machines and pattern design.

### **IND 3600 - Digital Visualization Techniques in ID**

**Credits:** 3

**Prerequisite(s):** IND 2450

**Description:** The objective of this studio course is to develop 2D digital concept visualization skills using computer programs and equipment. Instruction emphasizes professional level presentation techniques with various 2D computer programs, including vector and bitmap based programs.

### **IND 3660 - Computer Aided Modeling**

**Credits:** 3

**Prerequisite(s):** IND 1450 or CET 1215 or MET 1200

**Description:** In a computer laboratory environment, students use software to model/render objects and designs in virtual three-dimensional space.

### **IND 3680 - Computer Modeling for Manufacturing**

**Credits:** 3

**Prerequisite(s):** IND 3660

**Description:** This combination lecture and laboratory course serves as an advanced, computer-aided modeling course in sequence with IND 3660. The course focuses on the material and assembly testing tools within appropriate solid modeling software to create products for manufacture. Appropriate software for analysis of a product's readiness for manufacturing is also introduced. Emphasis is placed on developing models that facilitate direct digital manufacturing and advanced manufacturing methods.

### **IND 3700 - Public Furniture Design**

**Credits:** 3

**Prerequisite(s):** IND 2450

**Description:** This is a combination lecture and laboratory course in which students investigate and apply the key considerations for the design of public furniture. Instruction will be provided in the preparation of presentation materials for public use furniture competitions and furniture fabrication techniques. The application of these topics will be employed in the design and fabrication of a piece of furniture for public use.

### **IND 3800 - Design for Marketability and Manufacturing**

**Credits:** 4

**Prerequisite(s):** IND 3450

**Description:** In this course, students gain knowledge of design for production criteria by developing a product and optimizing its design for specific mass manufacturing technologies. Students gain experience through the design development process, including market feasibility research, brainstorming new concepts, refining concepts, and constructing alpha and beta prototypes that are designed for mass manufacturing. Projects are based upon real-world, new product development principles. Students learn fundamentals of industrial production, ecological design, consumer safety and entrepreneurship.

### **IND 3850 - International Design Workshop**

**Credits:** 3

**Prerequisite(s):** Instructor Approval

**Description:** This course is designed to provide the student with a fundamental understanding of global design culture that must be considered in order to design products for the global market. In this course, the student will participate in a multidisciplinary and multicultural design workshop that also includes pre and post-workshop lectures at MSU Denver.

*Note: This course may be repeated up to 4 times under different areas of travel.*

### **IND 3950 - History of Industrial Design**

**Credits:** 3

**Description:** This course provides an overview of the major personalities, organizations, styles, and evolutionary events that shaped the course of industrial design, from the Industrial Revolution to the present. There is a focus on the refinement of industrial design in Europe, the congruence of American design and industry, and the emergence of Asian design and manufacturing.

*Note: Credit will be granted for only one prefix: IND or HON.*

**Cross Listed Course(s):** HON 3950

### **IND 3980 - Elective Internship Experience**

**Credits:** 1-3

**Prerequisite(s):** IND 2450

**Description:** This internship is designed to allow students to acquire additional work experience in the design profession. The experience must be supervised by a design professional in conjunction with an Industrial Design faculty member.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Students may take this course twice for a total of 6 credits.*

### **IND 4090 - Advanced Modelmaking Fabrication Techniques**

**Credits:** 3

**Prerequisite(s):** IND 3480

**Description:** This course will provide students with the opportunity to fabricate finished product models using different types of computer controlled prototyping processes. A variety of materials, processes, and Computer Numerical Control (CNC) machines will be utilized in the model fabrication process.

### **IND 4210 - Utilization of Composites in Manufacturing**

**Credits:** 3

**Prerequisite(s):** IND 3100

**Description:** In this combination lecture and laboratory course, students build upon the skills and knowledge acquired in IND 3100 - Composites: Materials and Fabrication utilizing design and fabrication projects to inform how they can use composite materials

for advanced manufacture. The course will provide instruction in advanced composite fabrication techniques and relevant equipment for composite-based manufacture.

### **IND 4410 - Surface Modeling for Industrial Design**

**Credits:** 3

**Prerequisite(s):** IND 1450 or permission of instructor

**Description:** This lecture/lab provides instruction upon the skillset acquired in IND 1450 - Technical Drawing and CAD. Students will learn the principles of a NURBS (Non-uniform Rational B-Spline) based 3D modeling and visual rendering program. The modeling program will be used to produce digitally generated, realistic, visual imagery to maximize the effectiveness of design presentations and the design decision-making process.

### **IND 4450 - Advanced Industrial Design Studio**

**Credits:** 4

**Prerequisite(s):** IND 3450

**Description:** This course is a continuation of IND 3450, extending industrial design to user-centered research, conceptualization, and presentation. In this course, students learn advanced product conceptualization techniques, use additional product development tools, and produce professional quality product presentation materials. Special emphasis is given to human factors in product design.

### **IND 4460 - Professional Industrial Design Studio**

**Credits:** 4

**Prerequisite(s):** IND 4450

**Description:** Students develop a semester-long design project under the guidance of a primary instructor and specialized mentor. Students complement knowledge and skills from previous coursework with in-depth, qualitative research to create design solutions.

### **IND 4540 - Concept and Portfolio Development**

**Credits:** 4

**Prerequisite(s):** IND 4450

**Description:** In this course, students develop futuristic 'blue sky' concepts that are based on new technologies and user-centered research. Students also develop a professional design portfolio of their best work. The portfolio showcases students' skills as aligned with program and student learning outcomes. Evaluation of portfolios provides data for ongoing assessment of the IND program.

### **IND 4550 - Advanced Textiles**

**Credits:** 3

**Prerequisite(s):** IND 3550

**Description:** This course will provide students all the required information to create manufacturing drawings for softgoods. The final product will include sketches, finished orthographic renderings, and a multi-page techpack. The finished techpack will include all details required to make the finished good. The students will also

make finished models of their chosen design. This course will cover how to produce manufacturing drawings for packaging, including how to pattern typical packaging materials and create finished art. Finished art means graphics and die lines are set up in an industry specific way.

### **IND 4860 - Research in Industrial Technology**

**Credits:** 2

**Prerequisite(s):** Senior standing; IND major

**Description:** This course provides in-depth research, laboratory experimentation, and/or development of a student-selected and faculty-approved topic in one technical system. The areas of research are: communications, manufacturing, and transportation/power. The course allows the student the opportunity to further develop problem-solving abilities. At the same time, the process enhances the student's knowledge and skills in a technical concentration.

### **IND 4870 - Special Studies in Industrial Design**

**Credits:** 1-5

**Prerequisite(s):** Permission of instructor

**Description:** A study and investigation of a selected topic in the field of industrial design. Student may repeat this course in alternate concentrations.

### **IND 4960 - Professional Internship**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements; senior standing; and IND 4450.

**Description:** The internship provides an opportunity for senior students to gain experience under the guidance of an industry professional. Students must complete a total of 150 hours during the semester in a placement relevant to the practice of Industrial Design.

**University Requirement(s):** Senior Experience

## **Integrative Healthcare**

### **ITP 1000 - Health Career Foundations**

**Credits:** 3

**Description:** This course is designed for students desiring a career in a health profession or a health related field. Through familiarization with health care trends and key concepts, students will have a solid foundation for their journey. Using design thinking, students will explore possible pathways through their academic education and extra-curricular activities to increase the probability that they will enter a health career that aligns with their values, interests, talents, and goals. Connecting students with campus, community, pre-professional, and professional resources to support their health career aspirations will increase their ability to successfully achieve their goals.

### **ITP 1500 - Dynamics of Health**

**Credits:** 3

**Description:** This course investigates contemporary health topics. Subjects surveyed include current biological, psychological, sociological, and cultural factors that influence health. Experiential learning encourages students to plan and adopt healthier behaviors. *Note: Credit will be granted for only one prefix: HON or ITP.*

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** HON 1501

### **ITP 1600 - Herbal Medicine**

**Credits:** 3

**Description:** This introductory course welcomes students of all levels and majors who are interested in learning about medicinal herbs. The class begins with a review of the history of herb use, Federal Drug Administration regulation, herb preparations, and potential actions of plant chemicals in the body. For each bodily system, lectures and readings will cover herbs traditionally used to benefit that system and to modulate specific ailments, including summary statements of scientific evidence for efficacy and safety.

### **ITP 1700 - Medical Terminology**

**Credits:** 2

**Description:** This course introduces students to the basic Latin and Greek word parts that are combined to create medical terms and definitions of those terms. This will include terminology related to body structure, disease and treatment, and individual body systems. This course is a valuable introduction for any student interested in pursuing a career in a health-related field.

### **ITP 2000 - Integrative Health Foundations**

**Credits:** 1

**Prerequisite(s):** 15 credits and ENG 1010 or ENG 1008 and ENG 1009

**Description:** This course allows students to orient to the field of Integrative Health. Students will review course curriculum, department rules for participation in prescribed courses, and use of available resources. Professional behavior and career options will be covered.

### **ITP 2500 - Complementary and Alternative Medical Therapies**

**Credits:** 3

**Prerequisite(s):** Satisfaction of General Studies Written Communication Requirement

**Description:** This course is designed to acquaint students with a variety of nontraditional health and healing modalities in use in the United States today. It provides the basis for understanding the mechanisms and principles by which therapeutic responses are produced. The student will be required to develop and present a report related to a specific therapeutic modality.

### **ITP 2700 - Holistic Health**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course is designed to allow students the opportunity to explore health from a holistic perspective, which is a complex combination of mind, body, spirit and emotions.

### **ITP 2720 - Cannabis as Medicine**

**Credits:** 3

**Description:** Students in this course will explore the historical and current use of cannabis as a medicine. The major focus will be the current research and evidence of cannabis from an herbal and pharmacological perspective which includes the chemical constituents with physiological and psychoactive properties; medicinal uses, indications and dosage; current research and evidence based approaches; and the contraindications, side effects and adverse reactions related to the medical use of cannabis.

### **ITP 2800 - Health, Society, and the Environment**

**Credits:** 3

**Prerequisite(s):** BIO 1080 or ITP 1500 or ITP 2500 or PSY 1001 or SOC 1010

**Description:** This course examines the reciprocal relationship between human social organization and the natural environment. Students will gain a deeper understanding of how this relationship affects human health. Furthermore, they will learn to consider individual health challenges in the context of imbalances in personal, social, and environmental health.

### **ITP 2810 - Men Across Cultures**

**Credits:** 3

**Prerequisite(s):** ENG 1010 or ENG 1009

**Description:** The purpose of this course is to address men/boy's health on a global scale, providing insight into cultural influences on masculinity, which directly affect men's beliefs and behaviors about health and healthcare. Students in this course will explore the theoretical and practical influences on the experience of being a man in today's world, especially given the shift away from patriarchal power. Instruction in the course will include formation of a framework for understanding men in general and then move beyond the hegemonic masculine ideal to investigate the masculinities of numerous sub groups. The list of groups covered in the course will include marginalized social populations. Students will then apply their understanding of cultural influences on men to discern the effects on key determinants of health and well-being for men and boys.

**University Requirement(s):** Multicultural

### **ITP 2820 - Anger In Men: A Whole Approach**

**Credits:** 3

**Prerequisite(s):** ENG 1010 or ENG 1009

**Description:** This class will allow students to address issues of anger in men, with an exploration of responsible anger, cultural perspectives on aggression and violence, the physiology of anger, and self-reflection on one's own anger, including the triggers and expression of anger.

## **ITP 2950 - Wellness Coaching I**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication and Quantitative Literacy Requirements

**Description:** This course is an introduction to the principles and tools of wellness coaching practice. Topics include scope of practice, ethics and values, effective communication, relationship building, and facilitating results to illuminate the discipline of wellness coaching. Research based techniques and best practices for facilitating behavior change are included.

*Note: Credit will be granted for only one prefix: HPS or ITP.*

**Cross Listed Course(s):** HPS 2700

## **ITP 3000 - Men's Health**

**Credits:** 3

**Prerequisite(s):** General Studies Written Communication requirement

**Description:** This course is an in-depth study of health issues specific to men. It will take a holistic approach, encompassing the physical, mental, emotional, social, and spiritual aspects of men's lives and the impact of each on health. This course emphasizes dialoguing between students to encourage active engagement with issues that boys and men encounter in today's world.

**General Studies:** Social and Behavioral Sciences

## **ITP 3100 - Health Education and Counseling**

**Credits:** 3

**Prerequisite(s):** ENG 1020, and ITP 1500 or NUT 2040, and junior standing

**Description:** This course provides students with a basic understanding of the various methods of communication used in the health professions and enhances their communication skills through practice. This class focuses on developing educational materials and counseling and interviewing patients.

## **ITP 3111 - Aging Warriors: Understanding the Health Issues of Aging Men**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010; and ENG 1020 or ENG 1021

**Description:** This course examines the health issues of aging men. It is an integrative perspective on contributing factors to the health, disease, and demise of aging men such as masculinity, behavioral factors, environmental influences, and cultural influences. The course will include physical health, socio-emotional health, mental health, and sexual health issues of men growing older.

## **ITP 3200 - Ethics in Health Care**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; ITP 1700 and ITP 2700.

**Description:** This course is designed to assist students entering

health care to become familiar with ethical theories and issues that are encountered within the field.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** HON 3202

## **ITP 3230 - Bodies and Embodiment**

**Credits:** 3

**Description:** Students in this course examine multiple interdisciplinary discourses about gendered, sexed, raced, classed, and able bodies, beginning with Simone de Beauvoir's *The Second Sex*. Through discussion, lecture and critical evaluation of key theories in Body and Embodiment Studies (by Michel Foucault, Judith Butler, Susan Bordo, bell hooks, and Iris M. Young) students in this course explore the inscribed, as well as the lived, body--bodies that are gazed at, desired, fashioned, heard, and eroticized. In order to historically situate these discourses, the body is presented as a social construct that is controlled and manipulated but that also has unique experiences which cannot be verbalized and/or managed.

*Note: Credit will be granted for only one prefix: ITP, SOC, or GWS.*

**Cross Listed Course(s):** SOC 3230, GWS 3230

## **ITP 3300 - Homeopathy**

**Credits:** 3

**Prerequisite(s):** ITP 1700 and ITP 2700

**Description:** This course familiarizes students with the field of homeopathy. The course includes the history, laws, principles, and uses of homeopathy in the current health care system. Students are introduced to various homeopathic remedies and their uses. Contemporary research findings are presented, and potential research designs identified.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** HON 3301

## **ITP 3400 - Ayurveda**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; ITP 1700 and ITP 2700.

**Description:** This course covers the basic principles underlying the Indian health care system known as Ayurveda. It includes yoga, breathing techniques, meditation, herbal remedies, dietary practices, and the theories and research behind these practices.

## **ITP 3450 - Dynamics of Disease**

**Credits:** 3

**Prerequisite(s):** ITP 1500

**Description:** This course will acquaint students with the processes, dynamics and treatment of diseases with special focus on chronic diseases. It will also explore the psychosocial aspects of health as it relates to patients, families and caregivers; psychological crises; and death and dying.

## **ITP 3500 - Traditional Chinese Medicine**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; ITP 1700 and ITP 2700.

**Description:** This course provides the basis for understanding the mechanisms and principles by which traditional Chinese medicine is practiced. Students explore different therapeutic modalities. Course content includes traditional Chinese philosophy as applied to treatment in acupuncture, herbal medicine, massage therapy, T'ai Chi, and Qi-Gong. This course requires individuals to be open to learning about different philosophical beliefs upon which Chinese medicine is based.

### **ITP 3600 - Energy Medicine**

**Credits:** 3

**Prerequisite(s):** ITP 1700 and ITP 2700

**Description:** An experiential and conceptual exploration of energy medicine, this course combines theoretical foundations, such as quantum physics and chakra anatomy, with a strong, practical emphasis, including energy field assessment, basic healing techniques, and distance healing.

### **ITP 3700 - Physiology of Aging**

**Credits:** 3

**Prerequisite(s):** BIO 2310 and BIO 2320

**Description:** This course views aging from biological perspectives, explores theories of aging, and examines individual and cultural variations in the aging process. These themes form a backdrop to a detailed study of age-related structural and functional changes in the bodily systems, as well as the common diseases associated with each system. Successful aging will be emphasized through an examination of the modifiable risk factors for senescence and age-associated diseases.

**Cross Listed Course(s):** BIO 3530

### **ITP 3750 - Integrative Health Study Abroad**

**Credits:** 3

**Prerequisite(s):** Major within the Health Professions Department, 2.5 GPA and permission of instructor

**Description:** This is a variable topics course conducted in a study abroad format. The countries visited will vary as to where the course is offered. Students will study the health care of the country visited, including how people access healthcare, health care programs available, and how health care policy, environment, and tradition impact the health of the population.

### **ITP 3800 - Stress and Sleep: Impact on Health and Disease**

**Credits:** 3

**Prerequisite(s):** BIO 2310 or ITP 1500

**Description:** This course provides an in-depth study of stress, sleep, and the relationship between the two. Students will learn the physiologic mechanisms of acute and chronic stress, diseases associated with stress overload, and evidence-based ways to manage stress. They will also learn about sleep needs over the life cycle,

circadian rhythms, major sleep disorders, and the dangers of sleep deprivation.

*Note: Credit will be granted for only one prefix: HON or ITP.*

**Cross Listed Course(s):** HON 3801

### **ITP 3850 - Lifestyle Medicine**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010; and ENG 1020 or ENG 1021

**Description:** This class is an overview of lifestyle medicine and its use in disease prevention and enhancing overall health and wellbeing. Students will gain a basic understanding of the most common medical conditions that are impacted by lifestyle behaviors. In addition, we will explore the importance of motivation and behavior change in the field of lifestyle medicine and the importance of self-care/self-advocacy for optimal health. Students will understand the importance of referral to appropriate health professionals.

**General Studies:** Social and Behavioral Sciences

### **ITP 3911 - Fathers and Health: A Global Perspective**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course is designed to enrich student's knowledge and understanding of global fathering practices through the lens of health. Students will be exposed to cross-cultural medical literature that looks at how father's health behaviors such as diet, lifestyle, and physical health, in their own childhood, during peri-conception and in the developing years of his child's life, are determinant factors on various dimensions of children's health. Further, the course content includes emerging international research on the impact of fathering on a man's own identity and health - his longevity, his predisposition to depression, his heart health status, cancer risks, and societal influence. Student will then study various cultural influences that affect the health of fathers, and the influence on children and how those influences percolate across borders.

### **ITP 3920 - Gender Politics of Health**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or SOC 1010 or PSY 1001

**Description:** This course focuses on health issues specific to women and the challenges historically faced by women in the health care arena. Students will learn about the role of patriarchal medical mythologies that exist throughout various cultures in the oppression of women, especially minority women, and how women have reclaimed healing, health, and communities of medical knowledge production. This course specifically explores feminist, physiological, psychological, and sociological factors in women's health within a global context.

*Note: Credit will be granted for only one prefix: PSY, SOC, GWS, or ITP.*

**Cross Listed Course(s):** PSY 3920, SOC 3920, GWS 3920

### **ITP 3980 - Internship in Integrative Therapeutic Practices**

**Credits:** 1-15

**Prerequisite(s):** Permission of department

**Description:** This internship requires specialized skills that students may apply in educational or professional health care settings. A written learning contract between student, faculty supervisor, site supervisor, agency, and department chair is required. Activities include finding and working in an approved health care setting under the auspices of the office management or the clinical management. Academic credit is determined with 45 worked hours being equivalent to 1 credit. Therefore, 3 credits would be 135 worked hours, and 6 credits would be 270 worked hours.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

#### **ITP 4000 - Pediatric Holistic Health**

**Credits:** 3

**Prerequisite(s):** BIO 2320 and ITP 3200

**Description:** This course provides an overview of facts promoting the biological, psychological, and social health of children. The content emphasizes health maintenance, illness/injury prevention, and a holistic approach to common childhood illnesses. For each illness reviewed, lectures and readings will cover the etiology, diagnosis, conventional treatment, complementary therapies, and home management.

#### **ITP 4100 - Women's Holistic Health**

**Credits:** 3

**Description:** This course takes an in-depth, holistic approach to women's health. While highlighting new research findings, the class will explore the optimal integration of conventional medicine and complementary modalities for common women's health concerns. Students will deepen their awareness of tools women can utilize to maintain health and prevent illness.

*Note: Credit will be granted for only one prefix: GWS or ITP.*

**Cross Listed Course(s):** GWS 4100

#### **ITP 4200 - Aromatherapy**

**Credits:** 3

**Prerequisite(s):** BIO 2320, CHE 1100 or CHE 1800, and ITP 3200

**Description:** This course is a comprehensive and practical study of aromatherapy. It provides information needed to develop skills and knowledge in integrated aromatherapy. This course covers clinical and research trials, pharmacokinetics and chemistry of essential oils, physiological effects of essential oils, practical applications, and therapeutic blending. Individual oils will be profiled.

#### **ITP 4300 - Botanical Pharmacology**

**Credits:** 3

**Prerequisite(s):** BIO 2320, CHE 1100 or CHE 1800, and ITP 3200

**Description:** This course provides an in-depth exploration of

commonly used plant medicines. The review of each botanical will include its history, botanical classification, chemical constituents, modern uses, the scientific research supporting those uses, contraindications, potential side effects, and drug interactions.

#### **ITP 4400 - Wellness Coaching II**

**Credits:** 3

**Prerequisite(s):** ITP 2950 or HPS 2700; ITP 3850

**Description:** This advanced course in wellness coaching allows students to better understand ethics, professionalism, communication, behavior change, and coaching sessions. Students create coaching agreements, behavior change plans, and document interactions to support the eventual creation of a coaching business.

*Note: Credit will be granted for only one prefix: ITP or HPS.*

**Cross Listed Course(s):** HPS 4700

#### **ITP 4500 - Professionalism in Integrative Therapies**

**Credits:** 1

**Prerequisite(s):** ITP Major or IHC Major or ITP Extended Major or IHC Extended Major and junior standing (60 or more credit hours)

**Description:** This preparatory course is a prerequisite for both of the senior experiences for the ITP program: ITP 4800 Internship in Integrative Therapeutic Practices or ITP 4900 Theories and Application of Knowledge for Integrative Health. The course covers pre-professional skills such as cover letters and resumes, interview skills, and professional presentations. Students choosing to take ITP 4800 will identify and apply for a health care internship, while students electing ITP 4900 will research graduate programs.

#### **ITP 4550 - Advanced Health Navigation and Assessment**

**Credits:** 3

**Prerequisite(s):** HCPS 3000

**Description:** Students in this course will develop skills necessary to perform patient navigation and lifestyle medicine health assessments. They will also learn clinical practice guidelines for lifestyle related chronic health conditions. Students will practice developing action plans utilizing nationally accepted guidelines for healthy lifestyle behaviors. Students create community health referral networks, explore health improvement programs, and practice using the tools that health navigators and lifestyle medicine focused wellness coaches use in the community.

#### **ITP 4600 - Clinical Pathophysiology**

**Credits:** 4

**Prerequisite(s):** BIO 2320

**Description:** This course is designed to familiarize the student with the nature of human pathophysiology using major conceptual areas. Pertinent biochemical and metabolic derangements are correlated with the cellular structure by applying systems theory. The course focuses on the effects of the disease process on all of the major bodily systems, pathogenesis, and related clinical manifestations.

#### **ITP 4700 - Community Health Education and Lifestyle Medicine**

**Credits:** 3

**Prerequisite(s):** ITP 3850

**Description:** This class will help students gain a more in-depth understanding of lifestyle medicine in areas such as healthy eating, physical activity, stress reduction, and healthy sleep habits. They will work with various community groups to identify wellness educational needs, and then develop lifestyle medicine educational programs to assist community members with improving their wellbeing. Students will learn about health promotion concepts, create dynamic educational presentations/materials, and serve a community through sharing what they have created. Through service learning, students will assist various communities with disease prevention and enhance overall health and wellbeing through lifestyle medicine.

*Note: Some sections of this course may be taught as Service Learning.*

#### **ITP 4800 - Lifestyle Medicine Across Gender and Lifespan**

**Credits:** 3

**Prerequisite(s):** ITP 3850

**Description:** This class will focus on how lifestyle choices impact health across the lifespan from childhood/adolescence through early adulthood and into late adulthood. It will also focus on how lifestyle medicine impacts women's health, men's health, and LGBTQ health. Students will understand how areas of lifestyle medicine topics such as healthy eating, physical activity, stress reduction, healthy sleep habits impact the health of these various groups in different ways. They will also learn about lifestyle medicine topics that are of particular importance to certain populations of people.

#### **ITP 4900 - Theories and Application of Knowledge for Integrative Health**

**Credits:** 3

**Prerequisite(s):** Senior standing and ITP major

**Description:** This course explores the history, theories and philosophies surrounding the acquisition of health-related knowledge and understanding of the mind-body-spirit complex. The performance of a basic level Holistic Health assessment and knowledge of when and how to initiate appropriate referrals to traditional and complementary health team members will be covered, along with understanding the transformational nature of personal change.

**University Requirement(s):** Senior Experience

#### **ITP 4910 - Applications in Wellness Coaching**

**Credits:** 3

**Prerequisite(s):** ITP 2500, ITP 2700, ITP 2950

**Prerequisite(s) or Corequisite(s):** ITP 3850, ITP 4400

**Description:** This capstone course provides students with the opportunity to combine skills, knowledge, personal growth, and reflection with application through a summative presentation and demonstration of wellness coaching skills.

#### **ITP 4950 - Community Coaching for Health**

**Credits:** 3

**Prerequisite(s):** HPS 4700 or ITP 4400 and Senior Standing

**Description:** Lifestyle medicine knowledge is meant to be applied in the community setting, in order to truly impact the health of others. This course will allow senior students to utilize their competencies in lifestyle medicine, wellness coaching, and patient navigation in the community. Through community and campus partnerships, students will have the opportunity to apply their skills in real-world situations to impact the health and wellbeing of clients. Students will complete a coaching log that may be utilized when applying for the National Board Certification for Health and Wellness Coaching. Professionalism, documentation skills, and refinement of their coaching skills will be emphasized.

**University Requirement(s):** Senior Experience

#### **ITP 4990 - Internship in Integrative Therapeutic Practices**

**Credits:** 3-6

**Prerequisite(s):** ITP 4500

**Description:** This capstone course allows students to integrate and apply biological, psychological, sociological and cultural theories and all previously learned holistic health and integrative therapies knowledge and skills to individuals in a health care setting. Under supervision, students will utilize all course work in collaborating with field experts in solving problems related to integrative therapies. The integrative therapies area of study and the internship site are mutually agreed upon by the student, the faculty member, and the health setting staff. Internship credits are calculated with 45 worked hours being equivalent to one credit.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

**University Requirement(s):** Senior Experience

#### **ITP 4991 - Integrative Capstone**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ITP 4900 or ITP 4990

**Description:** This capstone course allows students to clarify their relationship with the newly emerging field of integrative health care, solidify their body of knowledge and create new paths for the future. In close consultation with faculty, students design projects from internships, community service work, research, wellness curriculum, study abroad or long-term leadership experiences. The course requires students to create their own website to display their academic body of work and their capstone project.

#### **ITP 4999 - Applied Learning with Lifestyle Medicine**

**Credits:** 3

**Prerequisite(s):** Approval of Health Professions Faculty and ITP 3850

**Description:** Full appreciation for lifestyle medicine is best realized through applying the knowledge outside of the classroom. Students who are interested in this applied learning experience will utilize lifestyle medicine principles to address various situations related to

whole person health. Experiential learning will be tailored to students' areas of interest, current skill set, desired knowledge and skills, post-graduate plans, and current lifestyle medicine opportunities. Opportunities to engage in lifestyle medicine related research, community service, health activism, and teaching others about lifestyle medicine will be given as available.

*Note: This course may be repeated up to 3 times with faculty permission.*

**University Requirement(s):** Senior Experience

## Italian

### ITA 1010 - Elementary Italian I

**Credits:** 5

**Description:** This is a basic course in Italian, with emphasis primarily on pronunciation, speaking, and understanding, supplemented by grammar, reading, and writing. Attention will also focus on understanding the culture and customs of Italy.

**General Studies:** Oral Communication

### ITA 1020 - Elementary Italian II

**Credits:** 5

**Prerequisite(s):** ITA 1010 or equivalent

**Description:** This course is a continuation of ITA 1010 and focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Arts and Humanities, Global Diversity

### ITA 1800 - International Italian Year I

**Credits:** 3-6

**Description:** This is a variable credit course, designed for first-year students learning Italian in a study-abroad setting. The course provides an approved study-abroad educational experience in Italian speaking, comprehension, reading and writing.

*Note: Student can earn a maximum of 6 credit hours.*

### ITA 2010 - Intermediate Italian I

**Credits:** 3

**Prerequisite(s):** ITA 1020 or Instructor's Permission

**Description:** This course is the first of a two-semester, integrated, second-year sequence focusing on the further development of listening, speaking, reading, and writing skills. The course emphasizes the use of functional, communicative language for achieving oral and written proficiency, and cultural competence. Classes are conducted mostly in Italian and will include a variety of interactive activities designed to help students develop their knowledge of Italian and their ability to use it productively in situations of communication.

### ITA 2020 - Intermediate Italian II

**Credits:** 3

**Prerequisite(s):** ITA 1020 or Instructor's Permission

**Description:** This course is a continuation of ITA 2010 and is the second of a two-semester, integrated, second-year sequence focusing on the further development of listening, speaking, reading, and writing skills. The course emphasizes the use of functional, communicative language for achieving oral and written proficiency, and cultural competence. Classes are conducted mostly in Italian and will include a variety of interactive activities designed to help students develop their knowledge of Italian and their ability to use it productively in situations of communication.

### ITA 2110 - Italian Reading and Conversation

**Credits:** 3

**Prerequisite(s):** ITA 1020 or Instructor's Permission

**Description:** This course is designed to deepen students' knowledge of the geographical, historical, economic, and sociological aspects of Italian culture. It strengthens conversational ability through the use of group discussions, role-playing, oral presentations, and debates. Conducted in Italian.

### ITA 2800 - International Italian Year II

**Credits:** 3-6

**Prerequisite(s):** One year of college Italian or equivalent

**Description:** This variable-credit course focuses a second-year study of Italian language and culture in an approved study-abroad setting.

*Note: Student can earn a maximum of 6 credit hours.*

### ITA 3010 - Italian Culture Through Film

**Credits:** 3

**Prerequisite(s):** ITA 2020 or Instructor's Permission

**Description:** This course is designed to expand students' knowledge of the culture and civilization of modern Italy primarily through film. It will focus on a selection of Italian movies from World War II to the present with the purpose of analyzing the historical, cultural, and socio-economic complexity of contemporary Italy. Classes will be conducted in Italian.

### ITA 3110 - Advanced Conversation

**Credits:** 3

**Prerequisite(s):** ITA 2020 or Instructor's Permission

**Description:** This course focuses on refining language skills while providing insight into Italian society and culture. It helps students expand vocabulary and communication strategies while revising complex grammatical structures. Conducted in Italian.

### ITA 3140 - Advanced Italian Grammar

**Credits:** 3

**Prerequisite(s):** ITA 2020 or Instructor's Permission

**Description:** This course systematizes and reinforces the language skills presented in lower-level courses through a review of complex grammatical points, and through the analysis of literary texts and newspaper articles. Classes will be conducted in Italian.

### **ITA 3220 - History and Culture of Southern Italy through Literature**

**Credits:** 3

**Prerequisite(s):** ITA 2020 or equivalent

**Description:** In this course taught in Italian, students explore the culture of Southern Italy through literature, history, and cinema. Students analyze a rich selection of literary texts, historical narratives, and essays. Discussions include contrasting views on the relationship between Southern and Northern Italy, bringing together the perspectives of two different worlds.

### **ITA 3250 - Readings in Italian Literature**

**Credits:** 3

**Prerequisite(s):** ITA 2020 or Instructor's Permission

**Description:** This course is designed as an introduction to the study of Italian literature. It helps students gain confidence and increase their effectiveness in reading Italian texts, develop vocabulary, and become familiar with idiomatic expressions through discussions, oral reports, and essays. Conducted in Italian.

### **ITA 3310 - Contemporary Italy: Culture and Society**

**Credits:** 3

**Prerequisite(s):** ITA 2020 or Instructor's Permission

**Description:** This course is designed to deepen students' knowledge of Italian language and society. Students will examine the political, cultural, and social history of Italy from the post-war period to the present. Students will use different idiomatic expressions, review grammatical structures, present oral reports, and write essays on the topics discussed in class. Conducted in Italian.

### **ITA 3340 - Twentieth-Century Italian Culture Through Songs**

**Credits:** 3

**Prerequisite(s):** ITA 2020 or equivalent

**Description:** This course further develops students' conversational skills through the study and enjoyment of Twentieth-Century Italian music. Students also deepen their knowledge of Italian society and history. Music helps to understand the character of a people and their identity. Listening to and discussing Italian songs from the 1920s to the 1990s offers a peek into Italy's past and present and a better understanding of the country's major historical and social changes.

### **ITA 3800 - International Italian Year III**

**Credits:** 3-6

**Prerequisite(s):** Two years of college Italian or equivalent

**Description:** This course focuses on upper-division study of language, culture, and society in a study-abroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in Italian.

*Note: Student can earn a maximum of 6 credit hours.*

## **Japanese**

### **JPS 1010 - Elementary Japanese I**

**Credits:** 5

**Description:** This basic course in Japanese emphasizes pronunciation, speaking, and understanding, supplemented by grammar, reading, and writing.

**General Studies:** Oral Communication

### **JPS 1020 - Elementary Japanese II**

**Credits:** 5

**Prerequisite(s):** JPS 1010 or equivalent

**Description:** This course is a continuation of JPS 1010 and focuses on skills development in listening, speaking, reading, and writing with emphasis on the use of functional, communicative language for oral and written proficiency and cultural competency.

**General Studies:** Arts and Humanities, Global Diversity

### **JPS 2010 - Intermediate Japanese I**

**Credits:** 5

**Prerequisite(s):** JPS 1020 or advisor permission

**Description:** This is the first semester of a two-semester intermediate Japanese language sequence specifically designed to strengthen grammatical skills and proficiency in speaking, understanding, reading, and writing. The course will also introduce students to a sampling of social, cultural and literary topics central to the understanding of Japan and the Japanese people.

### **JPS 2020 - Intermediate Japanese II**

**Credits:** 5

**Prerequisite(s):** JPS 2010 or advisor permission

**Description:** This second course in the JPS 2010 and JPS 2020 sequence is designed to continue strengthening grammatical skills and proficiency in speaking, understanding, reading, and writing. It will also present further examples of sociocultural issues central to Japan and the Japanese people.

### **JPS 2110 - Conversational Japanese I**

**Credits:** 3

**Prerequisite(s):** JPS 1020 or advisor permission

**Description:** This conversation course is designed to improve oral proficiency and further develop fluency in the Japanese language. Students will study a variety of model dialogues and will learn useful conversational formulas applicable to different scenarios of everyday life in Japan.

### **JPS 2120 - Kanji I**

**Credits:** 3

**Prerequisite(s):** JPS 1020 or advisor permission

**Description:** This Japanese course introduces 464 kanji: their etymology, meaning and usage. Students will learn to recognize and apply these selected kanji in both reading and writing.

## JPS 3110 - Conversational Japanese II

**Credits:** 3

**Prerequisite(s):** JPS 2110 or advisor permission

**Description:** This Japanese conversation course further develops the skills addressed in Conversational Japanese I. and is designed to enable students to speak more readily and with improved fluency. Students will learn a variety of dialogue models that are useful in different scenarios of every day life in Japan and will improve their communication skills.

## JPS 3120 - Kanji II

**Credits:** 3

**Prerequisite(s):** JPS 2120 or advisor permission

**Description:** This course is a continuation of Kanji I. The course introduces 232 additional, new kanji characters, their etymology, meaning, and usage. Students will be able to recognize and use them in reading and writing.

## JPS 3200 - Japanese through Media Culture

**Credits:** 3

**Prerequisite(s):** JPS 2020 or advisor permission

**Description:** This course focuses on the Japanese language, as well as on social and cultural customs through the prism of media. Materials studied include, but are not limited to: manga, online publications, and film.

## JPS 3210 - Advanced Japanese: Major Topics

**Credits:** 3

**Prerequisite(s):** JPS 2020 or instructor permission

**Description:** Advanced course for those who have taken two years of basic Japanese. The variable topics in this course will target specific aspects of the language to further the understanding of the culture.

*Note: This course may be repeated under different topics*

## Journalism and Media Production

### JMP 1000 - Introduction to Journalism and Mass Media

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics assessment tests

**Description:** This survey course introduces students from all academic disciplines to the historical development of journalism and mass media and its relationship to contemporary society. Students will explore the functions and impact of newspapers, books, television, radio, magazines, films, public relations and issues such as technology convergence, censorship, economic control, and privacy.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### JMP 1010 - Critical Thinking through 21st Century Media

**Credits:** 3

**Description:** Through the lens of 21st century media, this course teaches students to be critical media producers and consumers through critical thinking and inquiry learning skills. It reviews the similarities and differences between traditional and 21st century media, with attention focused on bias, perspective, author's intent, audience, social and ethical responsibilities, and the impact on a media communication process. 21st century media will be examined through both primary sources and current media to provide historical context for understanding media communication.

**General Studies:** Arts and Humanities

### JMP 1050 - Survey of Music, Video and Film

**Credits:** 3

**Description:** In this introductory course, students examine the ways in which music, film and video have evolved and become interconnected. Students learn how aesthetic principles, production techniques and technological advances have affected the manner in which film and video producers use and incorporate music in their productions.

### JMP 1100 - Journalism Fundamentals

**Credits:** 3

**Description:** This course emphasizes writing and editing using Associated Press style guidelines, proper punctuation for news copy, and the basic skills required of journalists. This course introduces students to the ethical and legal considerations for journalists with a special emphasis on libel and privacy laws. Students are regularly tested on their use of Associated Press guidelines. Students develop their ability to edit copy.

### JMP 1450 - Media Literacy

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** Students review basic Internet standards and refine electronic communication skills, using digital media and current online technologies. This course builds media literacy skills, including visual, information, and news literacies. Students analyze media messages using the frameworks of intent, audience, bias, ownership, human representation, production aesthetic, and historical context. Students examine human representation in the media through the lens of race, gender, physical ability, socio-economic status, and so forth. Media for advocacy and digital storytelling are also introduced to begin media production concepts and skills.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 1450

### JMP 2100 - Reporting

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** This course allows students to refine the news-gathering, interviewing, and writing techniques that were learned in JRN 1100 by introducing students to beat reporting. Students spend time perfecting their skills in a writing laboratory. Students are

required to cover events outside of class.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 2101

### **JMP 2210 - Beginning Layout and Design**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** This course will provide students with basic knowledge of layout and design for newspapers, magazines and other mass media publications, including the Internet, via a variety of software platforms.

### **JMP 2400 - Basic Video Editing**

**Credits:** 3

**Description:** This course introduces the fundamental principles, aesthetics, and procedures necessary to perform nonlinear video editing. Students learn how to perform video edits, the importance of aesthetics in editing, and how to translate editing theory to practical applications.

### **JMP 2420 - Basic Video Production**

**Credits:** 3

**Description:** This course introduces students to the basics of audio and video techniques and standards for producing on location single camera programs. Students engage in project development and pre-production, manual video and audio recording, professional image and soundtrack composition, production lighting operation and safety, and non-linear video editing.

### **JMP 2430 - Introduction to Media Production**

**Credits:** 3

**Description:** This course is a survey of basic media production. Basic production techniques, terminology, equipment characteristics, media selection, advantages and disadvantages are studied.

### **JMP 2435 - Multimedia Writing and Production**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** Students receive instruction and produce work designed to meet the requirements for a variety of media and audiences. Online writing, public relations writing, broadcast writing, scriptwriting, technical writing, interactive media writing, and writing for mobile and social media audiences are among the areas covered.

### **JMP 2450 - Basic Interactive Production**

**Credits:** 3

**Description:** Students explore interactive media and practice front-end website development. Students learn the basics of digital media - text, image, audio, video, animation, and interactivity. Professional message design including audience analysis, content outlines,

flowcharts, wireframes, and interfaces are also covered. HTML and CSS are used to produce a small website.

### **JMP 2460 - Raster Graphics**

**Credits:** 3

**Description:** Raster (bitmap) graphics are the core of image processing, photo retouching, graphic design, special effects, video animation, print design, and so forth. In this graphic production course, students create numerous image manipulation and graphic design projects. Other topics include visual literacy and how it integrates with professional communication. Graphic design principles including spatial layout, visual hierarchy, eye movement, color theory, and typography are also demonstrated.

### **JMP 2465 - Vector Graphics**

**Credits:** 3

**Description:** Vector graphics are the core of logo design, typeface design, information graphics, user interface design, vector animation and so forth. In this graphic production course, students create numerous vector design projects and technical illustrations. Other topics include telling a complex data-driven story with information graphics and contemporary user interface design.

### **JMP 2480 - Introduction to Animation**

**Credits:** 3

**Description:** This course introduces students to traditional animation techniques and the planning and production of computer animation. The course focuses on techniques used to create 2D objects and animate them in order to communicate a professional message. Students will create numerous computer animations to be viewed on the Internet.

### **JMP 2600 - Beginning Photojournalism**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** JMP 1000

**Description:** Students in this course receive beginning-level instruction in photojournalism and techniques used in still photography for print media and online media. The photojournalist's use of the camera is emphasized, and students are introduced to the mechanical limitations of the camera and how to best use the instrument. Students receive instruction in the use of light, pre-visualization of photographs, and the ethics of photojournalism.

### **JMP 2610 - Introduction to Technical Writing**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course provides students with the skills to analyze and produce clear and effective technical and scientific documents and materials. Students determine the style, purpose, content, and format for numerous industry-specific reports and technical support documents. Students analyze and produce accessible materials for expert, technical, lay, and intercultural audiences. Students also develop, incorporate, and cite visual elements, including images,

tables, and the representation of numeric data, to support the message delivered towards a specific audience.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 2611

### **JMP 2615 - Creating Content for Music Promotion and Social Media**

**Credits:** 3

**Prerequisite(s):** JMP 1000, JMP 2420, JMP 2600, or permission of instructor. Student must be a declared Sound and Vision major.

**Description:** This course covers the various types of visual media, social media and platforms used for promotion of musical artists and music-related business. Students learn how to shoot promotional photography, create print and electronic press kits, and design and post social media content. Students learn which social media platforms are appropriate for artist promotion and message delivery.

### **JMP 2700 - Fundamentals of Public Relations**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** This course is an introductory analysis and practical exploration of the roles and functions of public relations as it relates to an organization's internal and external publics. Development of practical skills include persuasive strategies, media relations, and effective news releases.

### **JMP 2800 - Introduction to Audio Production**

**Credits:** 3

**Description:** An introduction to the physics, perception, recording, and editing of sound-based media. Students work with digital audio recorders, various microphones, professional recording techniques, and non-linear audio editing software in creating original digital audio projects for a variety of media.

### **JMP 2890 - Overview of the Social Documentary**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Written Communication Requirement

**Description:** This course covers the different production elements required to produce a documentary for either a video or still photo program. It covers documentary styles, scripting techniques, production considerations and editing methods that are relevant to the documentary. Various documentary programs are viewed and critiqued.

### **JMP 3001 - Producing Social Documentaries**

**Credits:** 1

**Prerequisite(s):** ENG 1009 or ENG 1010 or equivalent

**Corequisite(s):** JMP 4890

**Description:** This course is designed for students who are interested in taking a Social Documentary class. Topics covered include news values, news writing, feature writing, photojournalism, camera management and camera operation. Students practice in each area

before embarking on their Social Documentary work.

*Note: This course is a co-requisite for non majors who desire to enroll in JMP 4890.*

### **JMP 3063 - Sports Photojournalism**

**Credits:** 3

**Prerequisite(s):** JMP 2600

**Description:** Students in the course gain an introductory level of instruction in sports photojournalism and techniques used in capturing sports action, sports reaction and sports feature photography for print and online media. Students must have working knowledge of DSLR cameras.

### **JMP 3130 - Sports Writing**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** This course will provide students with knowledge of sports coverage for newspapers, magazines and other mass media publications, including the Internet, via a variety of software platforms. Students will cover a sport during a season, writing game reports and features, as part of the course.

### **JMP 3200 - News Editing**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** This course provides advanced training in the complex problems of copy editing, headline and caption writing, and applying news judgment. Students also work on page design and photo editing. Students spend time perfecting their editing skills in a laboratory setting.

### **JMP 3300 - Multimedia Journalism I**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** This course provides students with the tools to become effective storytellers with several forms of media. Students will create stories using still pictures or video with audio and supported by text. Students will gain skills to produce multimedia pieces while learning the tenets of several computer programs. Students spend time perfecting their work in a multimedia lab.

### **JMP 3310 - International Technical Communications**

**Credits:** 3

**Prerequisite(s):** At least Junior standing or Permission of instructor

**Description:** This course introduces students to the requirements of international technical communications. It defines the characteristics of an international requirement of technical communicators and provides students with opportunities to practice necessary skills.

### **JMP 3330 - Technical Writing for Translation**

**Credits:** 3

**Prerequisite(s):** JMP 2610 or Permission of instructor

**Description:** This course prepares technical writers, editors, and scriptwriters to develop text and scripts in a manner that facilitates translation for international use.

### **JMP 3400 - Short-form Nonfiction Writing**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** Students study and practice various types of short-form nonfiction writing that are common in traditional magazine and online news and feature outlets. These include personality profiles, music and restaurant reviews and human interest features. They survey the traditional and digital outlets that publish short-form nonfiction articles.

### **JMP 3410 - Writing for Broadcast Media**

**Credits:** 3

**Prerequisite(s):** JMP 1100 or JMP 2435

**Description:** This course focuses on writing for broadcast electronic media. Students will learn the important elements, aspects, and processes involved in the creation of content specifically written for electronic media production and distribution. Students will explore the unique demands of electronic media forms, their audiences, the related terminology, and writing techniques.

### **JMP 3420 - Video Production Process**

**Credits:** 3

**Prerequisite(s):** JMP 2420; or permission of instructor

**Description:** Crew-based production process is the focus of this professional-practice course in audiovisual storytelling. Students work in standard industry group-assigned collaborative roles to produce a distribution-ready package program.

### **JMP 3430 - Performance for Broadcast**

**Credits:** 3

**Prerequisite(s):** JMP 2435 or permission by instructor

**Description:** This is an introductory course for "on air" performance, designed to meet the needs of radio-television-multimedia news anchors and announcers. Instruction is designed to develop pleasing and persuasive vocal and visual communication, either on-camera or on-mic, as a means of improving a variety of performance-driven broadcast, multimedia and Internet delivery presentations.

### **JMP 3431 - Video Production Design**

**Credits:** 3

**Prerequisite(s):** JMP 2420

**Description:** Theories and principles used to direct, design, light, and stage successful film and video productions are overviewed. Students explore production design and art direction in this hybrid lecture-production course, putting knowledge to hands-on practice.

### **JMP 3440 - Scriptwriting for Video**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** Through a series of hands-on scriptwriting assignments, students engage with several video script formats standardized by the various production industries they serve. Students engage in script research and development, scene and story construction, visual writing for audiovisual production, industry formats and language, and script editing through multiple drafts.

### **JMP 3445 - Television Production**

**Credits:** 3

**Prerequisite(s):** JMP 2400 or permission of instructor

**Description:** This course is an introduction to television production, operation of broadcast studio equipment, vocabulary, and experience in direction of multi-camera productions. Specific attention is focused on preproduction, including identification of audience by age, gender, and culture. Students will participate in production activities and procedures on a variety of projects.

### **JMP 3450 - Intermediate Interactive Production**

**Credits:** 3

**Prerequisite(s):** JMP 2450 or Permission of instructor

**Description:** Students in this course dig a little deeper into front-end website documentation and development. Producing accessible content using Universal Design, students create a device-independent, responsive website. Interactive forms and e-commerce options are also developed.

### **JMP 3451 - Sports Broadcasting: Techniques and Practices**

**Credits:** 3

**Prerequisite(s):** JMP 1100 or HPS 2730

**Description:** By examining all aspects of sports broadcasting, this course explores the aesthetics and technical skills of reporting, writing leads, developing style, editing, managing production, and adhering to ethics, as well as guidance on working in amateur and professional sports media. Through discussion, examples, pre- and post-production activities, students focus on the new demands and necessary skills needed for sports media in the broadcast domain.

### **JMP 3461 - Producing the TV Newscast**

**Credits:** 3

**Prerequisite(s):** JMP 2435

**Description:** This course introduces students to producing television news. This includes writing for TV news, in-studio production techniques, as well as post-production considerations in the creation of news packages. Business aspects of the broadcast news industry are explored, as well as legal and ethical issues that arise in news production.

### **JMP 3462 - Workshop in Radio Production**

**Credits:** 3

**Prerequisite(s):** JMP 2800 or permission of instructor

**Description:** This course allows students to access facilities of the

department's On-Air Broadcast Learning Center and online station, WCAS Radio. Students are given real-world training and practice opportunities in up-to-date broadcast techniques and technologies, building from their hands-on training in the professionally equipped WCAS Radio Broadcast Control Center.

### **JMP 3470 - Writing for Interactive Media**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course covers the techniques of designing, writing for, and documenting interactive media, which includes online, fixed, mobile, and social media for various devices. The student will create content outlines, flowcharts, storyboards, wireframes, and a variety of preproduction documents.

### **JMP 3485 - Motion Graphics I**

**Credits:** 3

**Prerequisite(s):** JMP 2400 or JMP 2460

**Description:** In the Motion Graphics I course, students create keyframe and preset-based animations for use in broadcast, online, and other professional video productions. Students incorporate raster and vector graphics, digital audio, video footage, typographic treatments, and appropriate visual effects to construct their animated messages. Rendering techniques and video compression are also practiced. The course concludes with demo reel presentations.

### **JMP 3490 - Budgeting and Planning Video for Music Productions**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3420 or permission of instructor. Must be a declared major in Sound and Vision.

**Description:** This course analyzes the methods and techniques for budgeting and planning video for commercial music productions. Script analysis and breakdown, shot list development, storyboarding and production contracts are studied. Students learn how to schedule productions in terms of time, personnel, equipment, materials, video formats and cost. Students create line item budgets for various music productions.

### **JMP 3500 - Topics in Journalism: Variable Topics**

**Credits:** 1-3

**Prerequisite(s):** JMP 2100

**Description:** This course will provide students with a brief look at a variety of topics in journalism, including specialized areas of reporting, writing, public relations, and content delivery. Topics vary each semester.

*Note: This course may be repeated for up to 6 semester hours of credit.*

### **JMP 3510 - Portfolio Presentation**

**Credits:** 1

**Prerequisite(s):** A journalism major or minor with at least junior standing

**Description:** This course helps prepare students to enter the vocation of journalism. Emphasis is placed on preparing a portfolio of work, crafting resumes and cover letters, and researching markets for employment.

### **JMP 3530 - Drone Journalism**

**Credits:** 3

**Prerequisite(s):** JMP 2100 or permission of instructor

**Description:** Students develop the ability to operate unmanned airborne vehicles for use in newsgathering. Topics covered include everything from technical specifications to simulations to ethical drone operation. Upon completion of the course, the student is now prepared to sit for the FAA license exam for drone operations.

### **JMP 3540 - Mobile and Social Media Communication**

**Credits:** 3

**Prerequisite(s):** JMP 2435

**Description:** This course explores the principles of using mobile and social media to accomplish a communication goal. Social media is investigated for its collaborative and community-building properties. Mobile media is examined through the lens of technology-enhanced communication.

### **JMP 3550 - Data Visualization and Presentation**

**Credits:** 3

**Prerequisite(s):** JMP 1100 or JMP 2610

**Description:** Data visualization is the graphic representation of information and data. Using visual elements like tables, charts, graphs, diagrams, color, and typography, etc., data visualization is an effective way to understand and present trends and patterns in data. Information is a powerful commodity and being able to efficiently analyze and present information is a sought-after skill for journalists, technical writers, and media producers. Great storytelling can happen when data visualization happens.

### **JMP 3560 - Column Writing**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** This course teaches students how to share anecdotes and ideas, as well as develop their voices as journalists. By the end of the course, students should be skilled in writing descriptive and critical reviews, thoughtful commentary on the day's news, and powerful profiles about news makers and everyday people. This course is designed to improve the quality of news column writing and to address the opportunities for inexpensive news communication in a digital age.

### **JMP 3570 - Covering the Environment**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 or JMP 1000 or Permission of the JMP Department

**Description:** Students in this course analyze corporate and public environmental issues in the West and how they are covered. Students

employ ethical paradigms in comparing and contrasting environmental issues and their coverage. Ultimately students compose journalism projects that detail the impact of environmental policy on end users.

### **JMP 3580 - Making Media Social**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** JMP 2435

**Description:** This course explores the principles of what makes media social from both a theoretical and applicable standpoint. Using a variety of tools, students not only create products and content for social media, but also understand their creation using a larger theoretical, rhetorical, and communication framework.

### **JMP 3590 - Streaming Media Technologies**

**Credits:** 3

**Prerequisite(s):** JMP 2430 or permission of instructor

**Description:** This course explores the history of streaming media and prepares students for the preproduction and production processes, current technologies, and streaming media deployment. Students develop a website, which incorporates streaming media technology.

### **JMP 3600 - Intermediate Photojournalism**

**Credits:** 3

**Prerequisite(s):** JMP 2600

**Description:** Students in this course build on their beginning level understanding of photojournalism and techniques used in still photography for print and online media. Students take their working knowledge of DSLR cameras and produce photojournalism images. Students will be in the field taking photos and editing on a regular basis. Finished work will be critiqued by faculty to reinforce instruction.

### **JMP 3620 - Introduction to Technical Editing**

**Credits:** 3

**Prerequisite(s):** JMP 2610 or Permission of instructor

**Description:** This course presents techniques for editing technical documentation including all levels of editing and teamwork with writers.

### **JMP 3625 - UX and UI: The User Experience**

**Credits:** 3

**Prerequisite(s):** JMP 2610

**Description:** This course is designed to provide students with the knowledge and practical experience of usability testing commonly known in the field as UX (User Experience) and UI (User Interface) Testing. Students will learn the usability issues and the strategies for planning and conducting a test, with or without a lab. Students will conduct usability tests on websites, instruction manuals, and other media to evaluate the user experience. The course will also focus on working in a team to plan, prepare, and conduct a usability test, then analyzing and presenting the results in a written report.

### **JMP 3630 - Producing Digital Documents**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** JMP 2610

**Description:** Students focus on message design for a professional audience when creating digital documents. Graphic design principles including spatial layout, typography, and color theory are incorporated into projects. Automation techniques, such as master pages, style sheets, content generation, etc., are examined. Students create several print documents, as well as a long-format book, interactive PDF, eBook, or mobile app. Students learn about printing methods, traditional and digital prepress, and finishing options. Document accessibility is also emphasized throughout, preparing students to create and repair documents for universal accessibility.

### **JMP 3645 - Writing Software and Hardware Documentation**

**Credits:** 3

**Prerequisite(s):** JMP 2610

**Description:** This course prepares students to write audience appropriate instructional materials and other end-user documentation for software applications, as well as preparing students to write audience appropriate materials for assembly, maintenance, operations, and service manuals (hardware documentation). This course emphasizes audience analysis, vocabulary, format and style, use of graphics, effective writing techniques, and production.

### **JMP 3660 - Variable Topics in Industrial and Technical Communications**

**Credits:** 3

**Prerequisite(s):** JMP 2610 or Permission of instructor

**Description:** This is a current-topics course that studies communication models and techniques for reporting industrial and governmental information to specialized and general audiences to advance corporate or agency goals and interests. The content of the course will change from semester to semester.

*Note: It may be repeated for credit.*

### **JMP 3670 - Writing for the Environmental Industry**

**Credits:** 3

**Prerequisite(s):** JMP 2610 or permission of instructor

**Description:** This course presents communication models and techniques for reporting industrial and governmental information related to the environment for specialized and general audiences. The course content necessarily includes a discussion of ethical concerns related to environmental issues both past and present, analyzing the context of an environmental message for optimum reception, practicing different discourse strategies based upon audience and context and document format, and exploring the basics of Plain English and readability for different audience levels. Material in the course will examine the issue of credibility as it relates to statistical material, presented both in text and in visuals or tables. Researching the CFR database for specific regulations related to environmental concerns will be taught, with a secondary goal of revising these regulations for readability of the targeted audience.

### **JMP 3700 - Public Relations Writing**

**Credits:** 3

**Prerequisite(s):** JMP 2700 or permission of instructor

**Description:** Students in this course apply public relations theory, principles, techniques, and practices to produce writing for specific publications and documents, such as news releases, press kits, public service announcements, newsletters and other communication materials.

### **JMP 3720 - Media and Influencer Relations**

**Credits:** 3

**Prerequisite(s):** JMP 2700

**Description:** Students in this course explore the relationship between organizations and individuals, social media, traditional media, and the public at large. Special attention is focused on how these groups influence one another and how the intersection of these mediums and interests produce influence in perceptions.

### **JMP 3740 - Public Relations Research, Planning and Measurement**

**Credits:** 3

**Prerequisite(s):** JMP 2700

**Description:** Students in this course build on the fundamentals of Public Relations. They are introduced to and use PR research tools, including web-based software platforms, general business research methods and qualitative interview and focus group methods. They practice drawing insights from research results and applying those insights to the PR planning process. They learn to connect PR goals and objectives to basic research.

### **JMP 3780 - Communication Law**

**Credits:** 3

**Prerequisite(s):** 6 credits of JMP courses or permission of instructor

**Description:** This course presents U.S. legal practices that impact professional communicators and technical media producers. It places special emphasis on the federal and state court systems, as well as emerging international laws for communication delivered over the Internet. The course covers copyright, fair use, defamation, intellectual property, privacy, and federal trade regulations as applied to print and digital media in physical and electronic distribution.

### **JMP 3785 - Media Law for Video Producers in the Music Industry**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3430, JMP 3440 or permission of instructor. Must be a declared major in Sound and Vision.

**Description:**

This course presents legal practices that impact professional video and visual media producers. The course emphasizes laws, copyright, fair use, intellectual property and other issues that affect video production as it relates to music-based productions. The course focuses on laws and regulations for video producers of

music programs as they apply to digital media in physical and electronic distribution.

### **JMP 3800 - Audio Post-Production**

**Credits:** 3

**Prerequisite(s):** JMP 2435 and JMP 2800 or permission of instructor

**Description:** Using multi-track audio editing software, students engage hands-on with advanced digital audio equalization, processing and filters, non-linear soundtrack editing, mixing, and mastering to create professional, distribution-ready sound mixes.

### **JMP 3970 - Publication Practicum**

**Credits:** 3

**Prerequisite(s):** JMP 2100 or Permission of Instructor

**Description:** The student, under supervision, will report and write publishable news and feature stories for the news products of the Office of Student Media at Metropolitan State University of Denver, including *The Metropolitan*.

### **JMP 3980 - Internship: Journalism and Media Production**

**Credits:** 3

**Prerequisite(s):** JMP 2100 or JMP 2430 or JMP 2700

**Description:** This course gives students an internship experience at a mass media outlet, media production operation or public relations setting where students are able to use the skills learned in the classroom in a supervised, professional environment. Students work as writers, reporters, editors, videographers, public relations practitioners, convergent media specialists and photojournalists at newspapers, magazines, agencies, corporations, nonprofit entities and other media outlets.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### **JMP 3981 - Internship in Video Production for the Music Industry**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3420, JMP 3430, JMP 3440, JMP 3490, JMP 3785, JMP 4420, JMP 4430 or permission of instructor. Student must be a declared Sound and Vision major.

**Description:** This course provides students with an internship experience at a media company, music venue or other music-related setting where students are able to use the skills learned in the classroom in a supervised, professional environment. Students work as video producers, scriptwriters, editors, videographers, photographers or social media producers at various media outlets. Students collaborate in the production of a final project overseen by the agency supervisor.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the*

### **JMP 4000 - News Media Leadership**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** This course helps students recognize leadership, understand the theories that define leadership, and apply these theories to real-world cases of news media leadership. This course is driven by case studies and student participation.

### **JMP 4010 - Media Entrepreneurship**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** Disruption in the media industry - the result of always-on digital media sources and a more discriminating consumer - requires that everyone considering a media career develop an entrepreneurial mindset. Working within an established media business, professionals must continually assess and adapt to the marketplace and changing customer habits and desires. More frequently, media professionals are striking out on their own, developing new ways to gather and present information to ever-expanding slices of the audience. Students in this course learn to analyze entrepreneurial opportunities, to apply their media knowledge to address those opportunities and to take the steps necessary to put their ideas into action.

### **JMP 4100 - Investigative Reporting**

**Credits:** 3

**Prerequisite(s):** JMP 2100

**Description:** Students receive an in-depth look at reporting issues using investigative techniques with a special emphasis on the use of documents as a research tool and the triangulation of sources.

### **JMP 4210 - Advanced Layout and Design**

**Credits:** 3

**Prerequisite(s):** JMP 2210

**Description:** Students use laboratory time designing pages that meet industry standards for the layout and design of newspapers, magazines, newsletters, brochures, and other professional publications, and Web pages. Students apply news judgment in photo editing, layout, use of graphics, editing, and headline writing.

### **JMP 4300 - Multimedia Journalism II**

**Credits:** 3

**Prerequisite(s):** JMP 3300

**Description:** This course is designed to build upon the fundamentals of news presentation using multiple platform dissemination. It tightens the scope from introductory multimedia instruction to look at work focused on specific news assignments. Emphasis will be placed on having students build multimedia journalism packages that combine sound, visuals, and newsgathering techniques. Students will need to come with the basics of multimedia production already

secured. This course allows them to further their real-world experience in multimedia storytelling.

### **JMP 4400 - Long-form Nonfiction Writing**

**Credits:** 3

**Prerequisite(s):** JMP 2100 or Permission of Instructor

**Description:** Students study and practice conceiving of, researching and writing the types of long-form nonfiction articles that are published in traditional magazines and in online news and feature outlets. Students produce two publishable long-form nonfiction article. They research likely outlets for long-form articles and practice proposing articles for publication in those outlets.

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 4400

### **JMP 4402 - Video Editing for Music Tracks**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 3420, JMP 3430, JMP 3800 or permission of instructor. Student must be a declared Sound and Vision major.

**Description:** This course focuses on the terminology and editing techniques applied to music tracks of films and video programs. Students discover the purposes of music in film and video, the role that music plays in the editing process and how to apply this knowledge when editing programs. Students learn about different platforms for music-related video programs and their technical specifications. Career options in the video editing field are also examined.

### **JMP 4403 - Electronic Media Management**

**Credits:** 3

**Prerequisite(s):** JMP 2435 or permission of instructor

**Description:** This course examines management tasks and functions as they exist in a variety of electronic media. The course focuses on relevant management theory, technical operations, economics, business functions and practices, programming, regulation, marketing, sales, and audience considerations specific to electronic media.

### **JMP 4420 - Advanced Video Production**

**Credits:** 3

**Prerequisite(s):** JMP 3420; or permission of instructor

**Description:** Advanced video production tools and processes spanning pre-production, production, and post-production are covered. Course topics include high-resolution digital proxy workflow, understanding codecs and formats, advanced color grading, and conforming video projects to broadcast specifications.

### **JMP 4425 - Producing the Music Video**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3420, JMP 3430, JMP 3440, JMP 3490, JMP 3785, JMP 3800, JMP 4402, JMP 4420 and JMP 4430; or permission of instructor. Student must be a declared

Sound and Vision major.

**Description:** In this course, students learn how to conceptualize, plan, produce and undertake post-production tasks in the creation of a music video. Students learn about specific pre-production activities, employ the methods and techniques for properly recording visuals and audio, and successfully perform post-production. Various types of music videos are identified and analyzed.

### **JMP 4430 - Video Production Management**

**Credits:** 3

**Prerequisite(s):** JMP 3420 or permission of instructor

**Description:** This course is a survey of video production management, guiding the aspiring producer through many of the roles and processes in a hands-on course. Topics include production research and development, budgeting and funding, scheduling and hiring, permits, contracts, licenses and other legal document preparation, finishing, marketing, distribution and exhibition.

### **JMP 4443 - Advanced Television Production**

**Credits:** 3

**Prerequisite(s):** JMP 3445; or permission of instructor

**Description:** This is an advanced course in digital production skills for both studio and the field projects. Specific focus is on digital, high-definition workflow and file-based capture and finishing. This course allows students independence and the opportunity for formative research, including team building, financing possibilities, target audience evaluation, and potential distribution venues.

### **JMP 4450 - Advanced Media Production and Leadership**

**Credits:** 3

**Prerequisite(s):** JMP 2450

**Description:** Students in this course get experience defining and working through the leadership skills required in media production projects. Advanced message design, information architecture, and documentation are produced. A variety of skills, including project management, graphic design, photography, copy writing / editing, and HTML/CSS coding all come together to deliver a professional project benefitting the community.

### **JMP 4455 - Magazine Production**

**Credits:** 3

**Prerequisite(s):** JMP 2210; or permission of instructor

**Description:** Students in this course develop a working knowledge of the relationship among magazine writing, photojournalism, and production. Students plan issues and write editorial content, such as cover copy, headlines, photo captions, departments, columns and features. Students plan a magazine issue from start to finish and will be responsible for designing and laying out magazine pages.

### **JMP 4460 - Multi-Camera Production for Music Performance**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3430, JMP 3440, JMP 3445, JMP 3485, JMP 3800, JMP 4420; or permission of

instructor. Student must be a declared Sound and Vision major.

**Description:** This course focuses on multi-camera video production as it applies to music performance in a studio or music venue setting. Students participate in and plan production activities that result in a finished video program. Studio activities include camera blocking, set design, lighting schemes, use of special effects, motion graphics, technical direction, creative production design and post-production editing.

### **JMP 4462 - Advanced Radio Production**

**Credits:** 3

**Prerequisite(s):** JMP 3462 or permission of instructor

**Description:** In this course, students continue their studies in radio. Students are given responsibility for creating regularly-scheduled program "air shifts" and will create both all-live and recorded-live station programming blocks.

### **JMP 4465 - Video Thesis**

**Credits:** 3

**Prerequisite(s):** JMP 4430

**Description:** Students take individual video projects from script to screen under guided professor mentorship in this immersive capstone video production course.

*Note: Students take either JMP 4460 or JMP 4760 to complete the Video Production core. They may take both with the second course serving as an additional upper division elective.*

### **JMP 4480 - Professional Capstone Project**

**Credits:** 3

**Prerequisite(s):** JMP 2400, JMP 2420, JMP 3420, JMP 3430, JMP 3440, JMP 3800, JMP 4402, JMP 4420, JMP 4430 or permission of instructor. Senior standing. Student must be a declared major in Sound and Vision.

**Description:** In this Senior Experience course, students produce a final video project that showcases a specific musical artist. The final project is a "rock documentary" that consists of on-camera interviews, performance footage, a conceptual video piece, promotional or social media materials and other media that represents the musical artist. The final project may incorporate subject matter from previous classes, but must include newly created content. Students will present the final project as part of an oral presentation.

**University Requirement(s):** Senior Experience

### **JMP 4485 - Motion Graphics II**

**Credits:** 3

**Prerequisite(s):** JMP 3485

**Description:** In the advanced motion graphics course, students hone professional skills including project documentation and personal branding. Students develop animated broadcast packages for several audience and industry profiles. Automation techniques and animation in 3D space are also practiced. The course concludes with demo reel presentations.

### **JMP 4500 - Ethical and Legal Issues in Journalism**

**Credits:** 3

**Prerequisite(s):** JMP 2435

**Description:** Students undergo an intensive study of the ethical, constitutional, and legal conflicts in the news media.

**University Requirement(s):** Senior Experience

### **JMP 4600 - Advanced Photojournalism**

**Credits:** 3

**Prerequisite(s):** JMP 3600

**Description:** Students in this course receive advanced instruction in photojournalism and techniques used in still photography for print and online media. Students build upon their working knowledge of DSLR cameras.

### **JMP 4740 - Public Relations in Crises**

**Credits:** 3

**Prerequisite(s):** JMP 1100

**Description:** Students in this course examine and develop public relations approaches for identifying, managing and responding to crises. Students explore multiple channels for communicating crises plans and for communicating during crises. Multiple publics are considered in planning and action for public relations professionals in this area.

*Note: Some sections of this course may be taught as Service Learning.*

### **JMP 4750 - Public Relations Laboratory**

**Credits:** 3

**Prerequisite(s):** JMP 3700

**Description:** PR Lab is MSU Denver's student-run PR agency. Students learn how a PR firm operates and gain real-world experience working with local corporate and nonprofit organizations as account executives. Students apply knowledge and practice of strategic planning, media relations, social media management, press release and blog writing, and event planning.

*Note: Some sections of this course may be taught as Service Learning.*

### **JMP 4760 - Advanced Internship in Journalism or Media Production**

**Credits:** 1-12

**Prerequisite(s):** Twelve credit hours completed in the Journalism and Media Production department including JMP 2435

**Description:** This advanced, on-the-job learning experience in a technical communications emphasis enables students to work in their chosen career fields. An approved plan from a cooperating organization serves as the course outline for a specific internship, but the outline must fulfill the general requirements of the course. The student must merit the internship experience and provide an acceptable plan of work before being granted permission to register for this course.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or internships@msudenver.edu.*

*Note: Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 4760

### **JMP 4790 - Senior Seminar**

**Credits:** 3

**Prerequisite(s):** Senior standing, and 12 or more hours of JMP or AES designated courses, or permission of instructor

**Description:** This course gives the advanced student an opportunity to write a paper of publishable quality and present a seminar based on in-depth research or an application of state-of-the-art practices in an area of Technical Writing and Editing, Media Production, Video Production or other field.

**University Requirement(s):** Senior Experience

### **JMP 4890 - Social Documentary**

**Credits:** 1-4

**Prerequisite(s):** JMP 2100

**Description:** Students create photos/essays for publication and portfolios working independently or in teams. Emphasis is placed upon producing stories and images that deal with cultural definitions that impact social change. Finished work emphasizes the marriage between text and image.

*Note: Students may repeat this course for up to 12 credits. Credit will be granted for only one prefix: HON or JMP.*

**Cross Listed Course(s):** HON 4890

## **K-12 Physical Education**

### **PETE 1601 - Introduction to Teaching Physical Education**

**Credits:** 3

**Description:** The course will introduce the student to the professional preparation for the physical educator in the broadest sense. Thus, the students' experiences in the course will include learning about the history of physical education, being introduced to the steps for teacher licensure, learning of professional dispositions including attendance/punctuality, self-initiative, reliability, communication skills, and response to feedback. Important physical education concepts will be covered including; standards, objectives, lesson plan design, as well as unit planning. Students will learn how to use campus resources important to their success as students.

### **PETE 1665 - Methods of Teaching Outdoor Education**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course is intended for K-12 Physical Education teaching majors and covers outdoor education experiences and methodology. Topics will include an array of outdoor and adventure education activities throughout various seasons.

*Note: PETE 1601 must be taken concurrently with or prior to PETE*

1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.

### **PETE 1670 - Curricular Aspects of Elementary Physical Education**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course is intended for K-12 Physical Education teaching majors. It is a course designed to acquaint students with theories, rationale, activities and materials used to teach physical activities and rhythms to children at the elementary school level.

*Note: PETE 1601 must be taken concurrently with or prior to PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 1680 - Curricular Aspects of Secondary Physical Education**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course is intended for K-12 Physical Education teaching majors. The course is designed to acquaint students with theories, rationales, activities and materials used to teach physical activities to students at the secondary school level.

*Note: PETE 1601 must be taken concurrently with or prior to PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 2010 - Methods of Teaching Team Activities**

**Credits:** 3

**Prerequisite(s):** PETE 1601

**Description:** This course covers various methodologies of teaching team activities for the K-12 Physical Education major. It is designed to develop the teaching skills, strategies, and presentation techniques necessary to effectively teach a variety of team activities. Students will also learn the skills associated with performance analysis, classroom management, and teacher feedback as they relate to team activities.

*Note: PETE 1601 must be taken concurrently with or prior to PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 2030 - Teaching Weight Training and Fitness Education**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course covers methods of teaching weight training and physical fitness for the K-12 Physical Education major. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach the principles of weight training and fitness education in a physical activity and/or classroom setting. Students will also learn the skills associated with exercise prescription, exercise testing, and fitness testing administration.

*Note: PETE 1601 must be taken concurrently with or prior to taking PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 2040 - Methods of Teaching Individual/Dual Activities, Level I**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course covers various methodologies of teaching individual and dual activities for the K-12 Physical Education major. It is designed to develop the teaching skills, strategies, and presentation techniques necessary to effectively teach a variety of the selected activities. Students will also learn the skills associated with performance analysis, classroom management, and teacher feedback as it relates to individual/dual activities.

*Note: PETE 1601 must be taken concurrently with or prior to taking PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 2090 - Methods of Teaching Individual/Dual Activities, Level II**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** PETE 1601

**Description:** This course covers various methodologies of teaching individual and dual activities for the K-12 Physical Education major. The students will learn skill themes, movement concepts, and advanced locomotor and manipulative skills as they relate to individual/dual activities. Additionally, this class will focus on teaching styles and pedagogical concepts important to diversity (culture, race, gender, etc) and exceptionality (physical, emotional, mental and developmental abilities).

*Note: PETE 1601 must be taken concurrently with or prior to PETE 1665, PETE 1670, PETE 1680, PETE 2010, PETE 2030, PETE 2040, PETE 2090.*

### **PETE 2130 - Health and Physical Education for Elementary Teachers**

**Credits:** 2

**Description:** This course provides prospective early childhood and elementary teachers with a basic background in elementary school health and physical education programs. Students will learn the health and physical education content appropriate for elementary school children.

### **PETE 3000 - School Health Education**

**Credits:** 3

**Prerequisite(s):** "C-" or better in ITP 1500, PETE 1601, and provisional or full acceptance to teacher education

**Description:** School Health Education examines the determinants and barriers of health that impact children and adolescents. Knowledge, attitude and skill associated with behavior change are emphasized. Understanding the components of Coordinated School Health in creating a healthy school environment is also covered. Students will implement effective teaching strategies to create active-learning health lessons.

### **PETE 3010 - Clinical Experience in School Health Education**

**Credits:** 2

**Prerequisite(s):** C- or better in ITP 1500, PETE 1601, provisional or full acceptance to teacher education

**Corequisite(s):** HPS 3000

**Description:** This course is a companion course to and must be taken concurrently with PETE 3000. The course converts content, theory, and conceptual aspects of academic and professional teacher education into standards-based instruction through assignments, assessments management plans, and curriculum projects. Students plan and micro-teach lessons integrating Colorado Teacher Quality Standards and collaborate to develop interdisciplinary lessons. Students design a variety of models of instruction and approaches to classroom management to support learner's growth toward Quality Standards for Colorado teachers.

### **PETE 3200 - Movement Science for Teacher Education**

**Credits:** 4

**Prerequisite(s):** BIO 1000

**Description:** Movement Science includes basic knowledge in anatomical, biomechanics, kinesiology, physiology, and exercise physiology as it applies to the practice of physical activity, fitness, and exercise in K-12 Physical Education. The course will apply movement concepts to analyze technique as it applies to K-12 Physical Education curriculum during lecture and lab portions of the class.

### **PETE 3400 - Methods of Teaching Secondary Physical Education**

**Credits:** 3

**Prerequisite(s):** Grade of "C-" or better in PETE 1601, PETE 1680 and provisional or formal admission to the teacher licensure program.

**Corequisite(s):** PETE 3410

**Description:** This course is a companion course to and must be taken concurrently with PETE 3410. The course teaches students how to convert content, theory, and conceptual aspects of academic and professional teacher education into standards-based instruction through assignments, assessments, management plans, and teacher work samples. Students plan and micro-teach lessons integrating Colorado Teacher Quality Standards and collaborate to develop interdisciplinary lessons. Students design a variety of models of instruction and approaches to classroom management to support learner's growth toward Teacher Quality Standards for Colorado teachers.

### **PETE 3410 - Clinical Experience in Secondary Physical Education**

**Credits:** 2

**Prerequisite(s):** PETE 1601, PETE 1680

**Corequisite(s):** PETE 3400

**Description:** This course is a companion course to and must be taken concurrently with PETE 3400. The course teaches student how to convert content, theory, and conceptual aspects of academic and professional teacher education into standards-based instruction through assignments, assessments management plans, and teacher work samples. Students plan and micro-teach lessons integrating Colorado Teacher Quality Standards and collaborate to develop interdisciplinary lessons. Students design a variety of models of

instruction and approaches to classroom management to support learner's growth toward Quality Standards for Colorado teachers.

### **PETE 3460 - Health and Physical Education Assessment**

**Credits:** 3

**Prerequisite(s):** "C-" or better in PETE 1601, MTH 1610

**Description:** This course is designed to help students possess knowledge of standards-based assessment in psychomotor, cognitive, and affective domains and have skills of designing, administering, and interpreting assessments utilized in K-12 grade levels. Students will learn how to develop assessments and gather information to monitor student progress, structure effective lessons, and make grading more accurate and systematic.

### **PETE 3500 - Methods of Teaching Elementary Physical Education**

**Credits:** 3

**Prerequisite(s):** "C-" or better in PETE 1601 and PETE 1670; Provisional or formal admission to the teacher licensure program.

**Corequisite(s):** PETE 3510

**Description:** This course is a companion course to and must be taken concurrently with PETE 3510: Clinical Experience in Elementary Physical Education. The course teaches students how to convert content, theory and conceptual aspects of academic and professional teacher education into standards based instruction through assignments, assessments, management plans, and teacher work samples. Students plan and micro-teach lessons integrating Colorado Teacher Quality Standards and collaborate to develop interdisciplinary lessons that link physical education to reading, technology and mathematics. Students design a variety of models for instruction and approaches to classroom management to support learner's growth toward Colorado Teacher Quality Standards.

### **PETE 3510 - Clinical Experience in Elementary Physical Education**

**Credits:** 2

**Prerequisite(s):** Grade of "C-" or better in PETE 1601, PETE 1670; Provisional or formal admission to the teacher licensure program.

**Corequisite(s):** PETE 3500

**Description:** This course is a companion course to and must be taken concurrently with PETE 3500: Methods of Teaching Elementary Physical Education. This course integrates the content, theory, and conceptual aspects of academic and professional teacher education in a 60-hour standards based field experience in elementary physical education. This field experience provides the pre-student teaching candidate opportunities in school settings to demonstrate their developing teaching competencies and extends opportunities to implement and assess integrated lessons that promote student achievement. Students apply principles of teaching and classroom management to make appropriate decisions for diverse groups of learners and to adjust approaches for elementary physical education students with special needs.

### **PETE 3800 - Risk Prevention, Assessment, and Intervention for Teacher Education**

**Credits:** 3

**Description:** This course is designed to provide K-12 physical education majors and P-12 education majors an overview of potential areas of risk faced by educators. Specifically, elements of risk prevention, first aid and CPR, assessment, and intervention are discussed as they apply within a school setting. Topics include: liability; decision making; supervision; protecting children; recognizing environmental risks; recognizing psychological disorders; recognizing general medical conditions; and, recognizing and evaluating common injuries related to physical education and activity.

### **PETE 4620 - Methods of Teaching Adapted Physical Education**

**Credits:** 3

**Prerequisite(s):** "C-" or better in PETE 1601, PETE 1665, PETE 1670 and PETE 1680. Provisional or formal admission to the teacher licensure program.

**Description:** This course is designed to give future teachers the skills and knowledge to effectively include children with disabilities in the general physical education setting or least restrictive environment. Course content includes characteristics of selected disabilities and how these disabilities impact a person's movement potential and performance, legislation, assessment, Individual Education Plans, strategies for inclusion and teaching methods in the physical education setting.

## **Leadership**

### **LDR 1010 - Leadership and Social Change**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing preassessment test

**Description:** This course provides an introduction to the place occupied by leadership at all levels of society, as well as an examination of the responsibilities that accompany the leadership role in the contemporary context. It also offers a framework through which students can explore their own potential for ethical and effective leadership. In this sense, the course revolves, in multidisciplinary fashion, around the application of leadership theories, concepts, and skills to both everyday life and the broader challenges facing people, especially during times of transition and change.

### **LDR 3010 - Perspectives on Leadership**

**Credits:** 3

**Prerequisite(s):** LDR 1010; or permission of instructor

**Description:** This course focuses on select topics fundamental for a full understanding of leadership. Among these are: the role of judgment in the leadership process; the ethical pursuit of leadership; the place of followership in the leadership equation; multicultural and global perspectives on leadership; and the question of emotional intelligence in leadership.

## **Letters, Arts and Sciences**

### **LAS 2810 - Integrated Arts and Humanities I**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This interdisciplinary course, the first in a two-part sequence, is an integrated study of the visual arts, literature, music, drama, and philosophy of the ancient, medieval, and Renaissance world. It explores humankind's cultural legacy and focuses thematically on the concerns of origin, self-knowledge, identity, world-view and society that many cultures, both Western and Eastern, share in common and also takes note of the unique contributions of different artists, writers, and thinkers to that process. Learning approaches will include lecture, discussion, projects, and attendance at a minimum of three cultural events.

### **LAS 2820 - Integrated Arts and Humanities II**

**Credits:** 3

**Prerequisite(s):** LAS 2810

**Description:** As part of a two-semester sequence, this interdisciplinary course continues the integrated study of the arts and humanities in the world of the 17th through 20th centuries, from the baroque and the age of reason to Romanticism and the modern period. It considers the effects of scientific discovery, industrialization, social change, and technology on their development and the interaction of diverse cultures on an international and global basis, and also takes into account the unique contributions of different artists, writers, and thinkers. Learning approaches will include lecture, discussion, projects, and attendance at a minimum of three cultural events.

## **Linguistics**

### **LING 2010 - Introduction to Linguistics**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This course provides the basic analytic skills to view language from a variety of perspectives. In addition to studying language structure (phonology, morphology, and syntax), the students will discover how languages around the world differ from one another, how children acquire language, how animal communication is distinct from human language, how people use language as a form of social identity, and how languages change over time. Much of the course involves solving mini-language problems and discussing the relevance of language to our daily lives.

### **LING 2011 - Origins of English Words**

**Credits:** 3

**Corequisite(s):** ENG 1020

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** In this course, students study the component parts of English words and the way that speakers and writers create and change words and word meaning. Students consider why and when words are borrowed from other languages, such as German, Latin, French, Spanish, Greek, and Arabic. This course provides students with tools they can use to improve their vocabulary and reading

comprehension throughout their lives. It is particularly valuable for students who plan to pursue careers in medicine, law, education, psychology, philosophy, culinary arts, and the humanities, and for all students who want to improve their language skills.

**General Studies:** Arts and Humanities

### LING 3011 - Analyzing English

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021 or permission of instructor

**Description:** This course is a practical approach to English language structure (i.e. phonology, morphology, and syntax), particularly useful to prospective teachers of English. The purpose of the course is to create a stronger understanding of the linguistic diversity in today's society. The course requires students to describe and explain linguistic structures.

### LING 3020 - History of the English Language

**Credits:** 3

**Prerequisite(s):** ENG 1020 or permission of instructor

**Description:** This course provides a study of both the internal history (sounds, inflections, and syntax) and the external history (political, social, and cultural influences) which have combined to make the English language in its many varieties what it is today.

### LING 3030 - Semantics

**Credits:** 3

**Prerequisite(s):** ENG 1020 or permission of instructor

**Description:** This course is the study of meaning in natural language. Students examine the development of meaning, the significant linguistic units that carry meaning, and the ways people use language to convey meaning. The course deals with basic concepts, theories, and analytical techniques in contemporary linguistics.

### LING 3040 - Morphology and Syntax

**Credits:** 3

**Prerequisite(s):** LING 2010 or permission of instructor

**Description:** This is an intermediate study of syntax and morphology using basic principles of structural linguistics and generative-transformational syntactic theory. Although the course focuses on English, the structure of other languages is also covered. Both the analysis of language structures and the discussion of relevant theoretical approaches to those structures are involved.

### LING 3043 - Phonetics and Phonology

**Credits:** 3

**Prerequisite(s):** LING 2010 or permission of instructor

**Description:** This course is an introductory study of language sounds (phonetics) and language sound systems (phonology), focusing primarily on the articulation of sounds, but also including discussion of acoustics and sound perception. The students will learn and practice using the International Phonetic Alphabet. Looking at various languages of the world, including English, the students will

analyze the phonemes and conduct phonological analyses, using distinctive features and rule formalism.

### LING 3044 - Phonetics

**Credits:** 3

**Prerequisite(s):** LING 2010, or permission of instructor

**Description:** This course, designed for Linguistics majors and minors, is an in-depth study of language sounds, how humans produce them, and how humans perceive them. Students learn about all three branches of the field: articulatory, acoustic, and auditory phonetics. Students also gain proficiency in using the International Phonetic Alphabet, collecting acoustic speech data, and interpreting waveforms and spectrograms.

### LING 3045 - Phonology

**Credits:** 3

**Prerequisite(s):** LING 2010 and LING 3044, or permission of instructor

**Description:** This course is designed for Linguistics majors and minors. In this course, students engage in an in-depth study of language sound systems and patterning of speech sounds. Using data from a broad sampling of the world's languages, as well as from English, students learn to analyze phonemic structures and conduct phonological analysis using distinctive features and rule formalism.

### LING 3050 - Language and Society

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course examines the dynamic relationships between language and society. The students will investigate why people speak differently in different social contexts by identifying the social functions of language and the ways in which language is used to convey social meaning. The course focuses on language variation, including such topics as languages and dialects, pidgins and creoles, bilingualism and multilingualism, linguistic solidarity and politeness, language planning and language change. Field methods, including ethical research procedures, are an integral part of the course.

### LING 3055 - Language and Law

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** The use of language in the US legal system is analyzed from both theoretical and practical perspectives. On a theoretical level, issues related to the determination of meaning in legal language are studied, including ambiguity in interpreting laws (court decisions, statutes, and codes) and contracts, and the use of speech acts and legal fictions like metaphor to conceptualize meaning. On a practical level, the course introduces students to forensic linguistics, or the use of language as legal evidence. Forensic linguistics topics include both the use of written language as evidence of authorship (e.g., ransom notes, wills, etc.) and spoken language as evidence of identity (e.g., telephone threats, recorded conversations, etc.).

### LING 3070 - Old English

**Credits:** 3

**Prerequisite(s):** Any one of the following: LING 2010, LING 3011, LING 3020, or permission of instructor

**Description:** This course covers the basic vocabulary and grammar needed to read texts in Old English with the aid of reference materials. The grammatical structure of the language is studied in detail. The course also addresses the relevant cultural and historical contexts necessary for understanding Old English texts.

### LING 3073 - Old Norse

**Credits:** 3

**Prerequisite(s):** Any one of the following: LING 2010, LING 3011, LING 3020, or permission of instructor

**Description:** This course covers the basic vocabulary and grammar needed to read texts in Old Norse with the aid of a glossary. It also addresses the relevant cultural and historical context necessary for understanding the texts.

### LING 3075 - Latin

**Credits:** 3

**Prerequisite(s):** Any one of the following: LING 2010, LING 3011, LING 3020, or permission of instructor

**Description:** This course covers the basic vocabulary and grammar needed to read texts in Latin with the aid of reference materials. The grammatical structure of the language is studied in detail. The course also addresses the relevant cultural and historical contexts necessary for understanding Latin texts.

### LING 3080 - Perspectives in Linguistics: Variable Topics

**Credits:** 3

**Prerequisite(s):** LING 2010 or permission of instructor

**Description:** The different topics within linguistics, some theoretical and some applied, range from conversation analysis to applied linguistics to stylistics to advanced syntax. Individualized projects are required. Students may repeat the course under different subtitles, up to a limit of 9 credit hours.

### LING 3090 - Writing Systems and Scribal Traditions

**Credits:** 3

**Description:** From columns of Classic Mayan glyphs and Chinese characters to strings of Greek letters and Viking runes, the world's writing systems and scribal traditions are vast and diverse. In exploring this topic, the course examines how sounds, words, social meanings, and other properties of human languages are graphically adapted and culturally transformed into writing systems. Specific areas of focus include the historical development of writing systems, epigraphy and the decipherment of ancient languages, scribal artistry and craft, and the relationship between writing and sociopolitical power. Although surveying several writing systems and associated phenomena, the course also features an in-depth exploration of Classic Mayan writing (or another visually complex system).

**General Studies:** Arts and Humanities, Global Diversity

**Cross Listed Course(s):** ANT 3530

### LING 4010 - Studies in Linguistics: Variable Topics

**Credits:** 3

**Prerequisite(s):** LING 2010 and junior standing, or permission of instructor

**Description:** The different topics, some theoretical and some applied, are interdisciplinary and are designed to help the linguist bridge the gap between linguistics and various other disciplines. Individualized projects are required. Students may repeat the course under different subtitles, up to a limit of 9 credit hours. Any single variable topic may be used as an elective under either the linguistic or the interdisciplinary requirement, but not both.

### LING 4011 - Anthropological Linguistics

**Credits:** 3

**Prerequisite(s):** LING 2010 or ANT 2500; and junior standing; or permission of instructor

**Description:** This course analyzes the origins of language, its development, the similarities and the differences between natural languages in the context of various cultures and societies. The focus is on the goals, tasks, and methods of the anthropological linguist studying the language of a foreign culture. The class will examine data from a variety of languages in order to gain an awareness of the variation and similarities that exist in language structures around the world. Individualized projects are required. This course may be used as an elective to satisfy either the linguistic or the interdisciplinary requirement for the Linguistics major, but not both.

### LING 4012 - Historical Linguistics

**Credits:** 3

**Prerequisite(s):** LING 2010 and junior standing, or permission of instructor

**Description:** This course covers the various languages and language families of the world from an historical perspective. The student will study language change, methods of historical linguistics research, and language classification. Individualized projects are required. This course may be used as an elective to satisfy either the linguistic or the interdisciplinary requirement for the Linguistics major, but not both.

### LING 4013 - Psycholinguistics

**Credits:** 3

**Prerequisite(s):** LING 2010 and junior standing, or permission of instructor

**Description:** This course examines language development in monolinguals as well as bilingualism/multilingualism in children and adults. It covers all levels of language structure (phonology, morphology, syntax, and semantics) and language use (linguistic interactions between parents and children, among children themselves, and between speakers across dialects). Individualized projects are required. This course may be used as an elective to satisfy either the linguistic or the interdisciplinary requirement of the Linguistics major, but not both.

### LING 4015 - Dialects of North American English

**Credits:** 3

**Prerequisite(s):** LING 2010 or permission of instructor

**Description:** In this course, students analyze the phonological, morphological, syntactic, and lexical variation in English as spoken in diverse regional and social contexts across the United States and Canada. This course provides a thorough overview of the status of language variation in North America and a survey of the various methodological and theoretical approaches used in dialect research. This course offers students the opportunity to conduct original dialect field research and write a paper reporting their findings.

### LING 4016 - Introduction to Translation Studies

**Credits:** 3

**Prerequisite(s):** LING 2010, 6 credit hours of a foreign language or permission of instructor

**Description:** The course provides a comprehensive coverage of the major theories of translation. Both theoretical and practical aspects of translation are discussed in detail. Students analyze numerous case studies and perform translation considering the many cultural, ideological, ethical, and philosophical aspects of texts of various genres. Students are introduced to translation memory and software.

### LING 4060 - Modern Language Theory

**Credits:** 3

**Prerequisite(s):** LING 2010 and senior standing, or permission of instructor

**Description:** This course focuses on at least two different theoretical approaches to language. The main theoretical approach is language universals and the typological classification of languages, which allows students to examine linguistic structures on all levels (phonological, morphological, and syntactic) from languages all around the world. Other theoretical approaches are also studied, at least one in depth. The course is designed to help the students utilize the terminology and methodological analyses they have learned in previous courses and apply these to new linguistic situations.

**University Requirement(s):** Senior Experience

## Management

### MGT 1985 - Introduction to Business Careers Internship

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.  
*Note: Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** ACC 1985, BNK 1985, CIS 1985, ECO 1985, FIN 1985, MKT 1985

### MGT 2210 - Legal Environment of Business I

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; and completion of General Studies requirements in Oral Communication.

**Prerequisite(s) or Corequisite(s):** Completion of Quantitative Literacy requirement or enrollment in a course that satisfies the Quantitative Literacy requirement.

**Description:** This course is designed to present the legal system as it applies to business. The course includes a discussion of fundamental concepts related to the nature and sources of law and to the resolution of disputes. The course requires analysis of statutes, cases, and regulations of related governmental agencies that address employment, securities, trade and workplace decisions. The law of agency, contracts, organizations and torts is analyzed. Ethical and international aspects of law are treated where appropriate.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** HON 2210

### MGT 2500 - Small Business Entrepreneurship

**Credits:** 3

**Prerequisite(s):** Completion of General Studies Quantitative Literacy Requirement and ENG 1009 or ENG 1010

**Description:** This course is the first in a three-part series (including MGT 3020 and MGT 4420) that is intended to prepare the student to evaluate, plan for, launch, and grow a business. It covers the fundamentals of evaluating and launching a small business. It provides the basic vocabulary for understanding small business entrepreneurship as well as how to evaluate a business idea and how to think through launching a business. Areas addressed may include: the importance of small business, characteristics and competencies of successful small business owners, opportunity recognition, small business environment, problem / solution fit, identifying target market, types of small businesses, planning for a small business, basic marketing concepts, identifying forms of business, analyzing the competition, analyzing basic accounting and finance issues, legal concerns, analyzing sources of funding, building a team, and other topics as desired by the instructor.

*Note: Management majors may use this course only as a general elective.*

### MGT 3000 - Organizational Management

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021; Satisfaction of General Studies Requirements in Oral Communication and Quantitative Literacy, and Junior standing

**Description:** This course examines, analyzes, and assesses managerial functions and processes as related to business and other organizations. It is designed to prepare students to meet the challenges of a highly dynamic and ever-changing business environment by formulating individual competencies and skills, translating theory into practice, creating critical thinkers, and reflecting on the integration of new concepts and environmental changes into managerial practices.

### MGT 3020 - Entrepreneurship Feasibility and Analysis

**Credits:** 3

**Prerequisite(s):** Junior Level Standing

**Description:** This course identifies the management skills necessary for starting, buying, or working for a start-up or small business. Areas addressed include the positives and negatives of starting a business,

researching and developing a business concept, investigating market factors, determining financial feasibility, and planning financial strategies. Students will evaluate business ideas and develop a written feasibility plan.

### **MGT 3220 - Legal Environment of Business II**

**Credits:** 3

**Prerequisite(s):** MGT 2210

**Description:** This course provides an overview of the contemporary legal environment in which businesses operate. It explores various forms of business organizations, such as corporations and limited liability companies, and business opportunities, such as franchises. Also covered are important areas of government regulation of business including securities law, antitrust law, environmental law, and bankruptcy law. The course also delves into the realm of employment law, with a focus on employment discrimination, affirmative action, and labor law.

### **MGT 3230 - International Business Law**

**Credits:** 3

**Prerequisite(s):** MGT 2210

**Description:** This course covers the legal context for international business decisions. Topics include selected elements of international law such as customary law and the law of treaties. Also covered are the international law of import/exporting, intellectual property, trade regulations, transportation, documentary transactions, contracts, agency/employment, and dispute resolution. Ethical aspects of the above areas are discussed.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** HON 3231

### **MGT 3240 - Employment and Human Resource Law**

**Credits:** 3

**Prerequisite(s):** MGT 2210

**Description:** This course is an in-depth study of the legal and practical implications of employment and human resources law. Students interested in management, human resources or owning their own business will benefit from this course. Topics include statutory law, common law and constitutional law as it relates to the employment/human resources context, employer/ employee relationship, antidiscrimination laws, labor law, litigation prevention methods and privacy. The focus of the course is on the practical elements of law, with an emphasis on Colorado and federal law.

### **MGT 3250 - Colorado Water Law and Water Rights Administration**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy, and Junior Standing

**Description:** This course provides students with an in-depth study of the unique nature of Colorado water law and Colorado water rights administration. The course will survey the key issues surrounding the legal framework governing the allocation of water resources,

administrative processes affecting water distribution, and policy considerations that influence decisions about the use and management of water resources in the state of Colorado. An overview of Colorado climate, geology and hydrology, as well as a review of Colorado's early water use and development will provide the context for the study of the legal system with which the state and its citizens allocate water.

*Note: Credit will be granted for only one prefix: ENV or MGT.*

**Cross Listed Course(s):** ENV 3250

### **MGT 3260 - Managing Business Risk**

**Credits:** 3

**Prerequisite(s):** MGT 2210 Legal Environment of Business I

**Prerequisite(s) or Corequisite(s):** MGT 2210 Legal Environment of Business I

**Description:** This course addresses how business owners/managers deal with the various risks of running a business. Businesses can face unexpected and accidental losses from a variety of sources and, without a solid risk management plan for these contingencies, the resulting losses can result in bankruptcy. This course focuses on the processes used in identifying risk, evaluating the potential for losses to the organization, and creating a strategy to retain or transfer the risk. Major topics include risk to property, liability risk, legal considerations, risk financing strategies, and operational and strategic risks.

### **MGT 3530 - Human Resources Management**

**Credits:** 3

**Prerequisite(s):** MGT 3000

**Description:** This course provides the student with a broad overview of the contemporary issues, theories, and principles used to effectively manage human resources in organizations. The psychological, social, legal, and economic bases underlying the practices of human resource management are studied. Topics such as recruitment, selection, performance appraisal, and compensation are analyzed. Some sections of this course are taught with an actual business client. Students engage with the client in conjunction with classroom learning.

*Note: Some sections of this course may be taught as Service Learning.*

### **MGT 3550 - Operations Management**

**Credits:** 3

**Prerequisite(s):** MGT 3000 and CIS 2300 or CIS 3300 or MTH 1210 or MTH 1610

**Description:** This course is an introduction to operations management decision-making and to the tools used to enhance the decision-making process. Attention is given to the design and operation of the production/service system and its interrelationship with other systems in the organization. The course places special emphasis on the use of quantitative techniques in decision making. Topics include productivity, strategic positioning and design of operations (e.g., capacity, layout, location, and work methods), project management, forecasting, quality control, supply-chain management, and inventory management.

### **MGT 3720 - The Conscious Business: Sustainable Business Strategies for the 21st Century**

**Credits:** 3

**Prerequisite(s):** Junior level

**Description:** Firms are recognizing the importance of sustainability and in response are adopting an expansive stakeholder view as a way to acquire a competitive advantage and increase financial returns. This course describes how a stakeholder perspective impacts all areas of a firm. The course also describes how a stakeholder view of strategy can create a "conscious company" that provides a positive impact to society and the environment while also increasing profitability.

### **MGT 3820 - International Business**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course is designed to enhance understanding of the international environment faced by businesses. Trade barriers, cultural differences, entry strategies into foreign markets, foreign currency, political environments, and economic environments are among the many topics surveyed to assist students in becoming aware of international issues and events influencing management in today's global environment.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** HON 3820

### **MGT 3850 - Global Entrepreneurship**

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** This course focuses on opportunities for starting and developing new ventures in parts of the world outside the U.S. Characteristics that influence entrepreneurship in select countries, whose cultures and income levels are vastly different from one another, are examined, requiring students to compare, contrast, and draw conclusions about new venture opportunities in those countries. Students will develop a feasibility plan for an international venture opportunity in a selected foreign market. Upon completing this course, students will have a better understanding of the unique elements associated with starting a new venture in a foreign country.

### **MGT 3860 - Social Entrepreneurship**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and General Studies Quantitative Literacy and Junior standing.

**Description:** This course provides an overview of social entrepreneurship, explains the skills required to identify unmet social needs and analyze their potential for solution with a viable social enterprise.

*Note: Students may receive credit for only one prefix: HSP or MGT.*

**Cross Listed Course(s):** HSP 3860

### **MGT 3980 - Internship in Management**

**Credits:** 1-15

**Prerequisite(s):** MGT 3000, plus two to three additional MGT courses; major in management; junior or senior status; and permission of instructor.

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **MGT 4050 - Purchasing and Supply Chain Management**

**Credits:** 3

**Prerequisite(s):** MGT 3000

**Description:** This course covers contemporary purchasing and supply-chain issues, concepts, and techniques related to the location, analysis, and monitoring of sources of goods, materials, and services.

### **MGT 4350 - Enterprise Planning**

**Credits:** 3

**Prerequisite(s):** MGT 3000

**Description:** This course provides a comprehensive understanding of Enterprise Systems (ES) and their role in organizations. The SAP Enterprise System and SAP S4/HANA software will be used in this course to understand key business processes including procurement, fulfillment, production, warehouse management and material planning. These processes will be discussed in terms of how they are executed and their impact on organizational outcomes. Attention will be given to the integrative nature of business processes.

### **MGT 4420 - Entrepreneurial Business Planning**

**Credits:** 3

**Prerequisite(s):** Senior Standing AND (ACC 1010 or ACC 2010 or FIN 2220 or FIN 3300 or FIN 3320) AND (MGT 3020) AND (MKT 3000 or MKT 3250 or MKT 4300 or MKT 4520)

**Description:** This course requires the student to prepare a definitive, comprehensive business plan involving all aspects of a proposed new venture. To attract seed money and growth capital, the student plan must address probable start-up issues involving market analysis, competition, workforce and capacity planning. Emphasis is on financial viability and business plan packaging to secure financial seed money.

**University Requirement(s):** Senior Experience

### **MGT 4430 - Operationalizing a Small Business**

**Credits:** 3

**Prerequisite(s):** Senior standing AND (ACC 1010 or ACC 2010 or FIN 2220 or FIN 3300 or FIN 3320) AND (MGT 3020) AND (MKT

3000 or MKT 3250 or MKT 4300 or MKT 4520)

**Description:** This course focuses on the issues related to starting a business. It addresses three major topics: (1) all the tasks necessary to begin a startup venture, (2) growing a venture after the startup stage, and (3) managing a venture for survival, growth, or exit. This is the capstone course for the BA in Entrepreneurship degree.

*Note: Students may take MGT 4420 Entrepreneurial Business Planning prior to registering for MGT 4430*

**University Requirement(s):** Senior Experience

### **MGT 4530 - Organizational Behavior**

**Credits:** 3

**Prerequisite(s):** MGT 3000

**Description:** This course examines the behavior of individuals and small groups in organizational settings. The emphasis is on how organizations influence behavior in their quest for operating efficiency and effectiveness.

### **MGT 4550 - Project Management**

**Credits:** 3

**Prerequisite(s):** MGT 3000 and CIS 2300 or CIS 3300 or MTH 1210 or MTH 1610

**Description:** This course investigates the concepts and applicability of matrix organizations and project management. The unique nature of the project-management structure is also examined, including its emphasis on integrative decision making throughout a product's life cycle.

*Note: Credit will be granted for only one prefix: HON or MGT.*

**Cross Listed Course(s):** HON 4550

### **MGT 4610 - Labor/Employee Relations**

**Credits:** 3

**Prerequisite(s):** MGT 2210 and MGT 3000

**Description:** This course provides the student with an understanding of the development of labor law and its application to the management of employer/employee relations. Cases and illustrations are used to demonstrate collective bargaining and methods of securing industrial peace.

### **MGT 4620 - Performance Management and Reward Systems**

**Credits:** 3

**Prerequisite(s):** MGT 3530

**Description:** This course examines the management and reward of employee performance including methods of: (1) identifying, measuring and evaluating performance; (2) using performance data as a basis for human resource management decisions; and, (3) designing compensation systems to attract, retain, and motivate employees; and (4) ensuring strategic alignment of employee performance and organizational goals.

### **MGT 4640 - Employee Training and Development**

**Credits:** 3

**Prerequisite(s):** MGT 3530

**Description:** This course focuses on the design, implementation, and uses of training and development as a necessary part of increasing the value of employee and manager skills. Rapid organizational change precipitated by global competition, multicultural and multinational workers, and technology implementation require organizations to develop the human potential and careers of their employees at all levels.

### **MGT 4660 - Employee Selection**

**Credits:** 3

**Prerequisite(s):** MGT 3530

**Description:** This course introduces students to issues related to the selection and placement of employees, including workforce planning issues, sourcing and recruiting talent, and the proper use of selection tools and procedures that will facilitate the effective selection of talent.

### **MGT 4680 - Strategic Human Resource Management**

**Credits:** 3

**Prerequisite(s):** MGT 3240; MGT 4620 or MGT 4640 or MGT 4660

**Description:** This course presents an advanced, comprehensive approach to the strategic management of human resources. Students are provided the opportunity to integrate and apply the concepts and knowledge gained through the foundational HR Concentration courses in order to develop, apply, and assess HR practices that support organizational goals and enhance the performance and satisfaction of its employees.

### **MGT 4700 - Global Management**

**Credits:** 3

**Prerequisite(s):** ECO 3550, FIN 3100, MGT 3820, and MKT 2010 or MKT 3710 or MKT 3750

**Description:** This course focuses on the management challenges associated with developing strategies and managing the operations of companies whose activities cross national boundaries. Topics such as the challenges of creating global strategies, operating in different cultures, the implications of cross-national differences in institutional environments, along with how to design effective organizational structures for coordination and control in multinational operations, are discussed.

**University Requirement(s):** Senior Experience

### **MGT 4830 - Workforce Diversity**

**Credits:** 3

**Prerequisite(s):** Senior Standing

**Description:** This course provides an integrated perspective on the management practices and systems that influence the development and contributions of individuals within a culturally diverse workforce. The focus is on those practices that enhance an organization's effectiveness in the increasingly competitive domestic and global marketplace.

*Note: Credit will be granted for only one prefix: GWS, HON, or MGT.*

**University Requirement(s):** Multicultural, Senior Experience  
**Cross Listed Course(s):** GWS 4830, HON 4830

### **MGT 4850 - Organizational and Management Consulting**

**Credits:** 3

**Prerequisite(s):** Senior standing, or Junior standing with permission of instructor

**Description:** This course introduces students to the consulting process and requires them to apply its steps to an actual organization or small business. Students develop skills in building rapport with clients, identifying major trends in a client's organizational environment, identifying the major problems or issues facing a client organization, developing viable alternatives, and formulating and recommending solutions to the problems or issues identified. There is a service learning component where students apply course concepts to an actual business setting and reflect on their service experiences.

*Note: Some sections of this course may be taught as Service Learning.*

### **MGT 4910 - Strategic Leadership**

**Credits:** 3

**Prerequisite(s):** MGT 3000

**Description:** Leaders are expected to be visionary. This course provides participants with frameworks to visualize human systems and processes at multiple levels such as individual, relationship, group, organization and society. Such visualization is a prerequisite to discovery of leadership opportunities for the participants and to developing a vision of transformation of these human systems. A leader's job is to communicate the vision to garner people's energy and to facilitate the processes of transformation.

### **MGT 4950 - Strategic Management**

**Credits:** 3

**Prerequisite(s):** ACC 2010, ACC 2020, CIS 2010, CIS 3300, CIS 3320, FIN 3300, MGT 2210, MGT 3000, MKT 2040, MKT 3000, and senior standing.

**Prerequisite(s) or Corequisite(s):** ACC4440 or BUS3040

**Description:** This course presents concepts used by managers to develop companies that can prosper in a competitive, global environment. Students are provided the opportunity to apply the concepts and theories of strategic management along with knowledge gained from business courses, general studies, and work experience to the operating and strategic changes faced by domestic and global organizations (Senior Experience). Some sections include a service learning (SL) component where students apply course concepts involving an actual business client and are required to reflect on their service learning experience.

*Note: There may be a service learning component where students apply course concepts to an actual business setting and reflect on their service experiences.*

*Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Senior Experience

## **Marketing**

### **BUS 1950 - Business Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 and ENG 1009 or ENG 1010.

**Prerequisite(s) or Corequisite(s):** ENG 1020

**Description:** This marketing course explores multiple forms of communication within a business environment. Emphasis is placed on writing, listening, speaking, nonverbal and interpersonal communication with internal and external business audiences. Students apply the principles learned to written exercises and oral presentations.

### **MKT 1260 - Customer Service**

**Credits:** 3

**Description:** This course introduces the field of customer service as applied to both consumer and business buyers. Areas covered include: developing customer satisfaction, building customer loyalty, creating rapport, and managing customer expectations. Students will identify these areas through class lectures, guest speakers, cases, and homework assignments. Students will also learn about career opportunities.

### **MKT 1985 - Introduction to Business Careers Internship**

**Credits:** 3

**Description:** Approved internships introduce the specific field of business as well as provide an opportunity to gain practical, hands-on professional work experience. Students will learn about the profession, explore related career paths, and increase professionalism.  
*Note: Internship must be approved by the department using the C2 Hub process.*

**Cross Listed Course(s):** ACC 1985, BNK 1985, CIS 1985, ECO 1985, FIN 1985, MGT 1985

### **MKT 2010 - Marketing Around the Globe**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** Students study the importance of globalization in the business world where global markets are more connected and marketers must respond to the expectations of global consumers. The course covers the essential concepts of global marketing with the aid of extensive, real-life examples. The course offers balanced coverage of developed and developing markets. Integrating cultural analysis throughout the course, students examine global and local competition and forms of global market entry, as well as basic principles of global marketing strategies, such as price, product, distribution, and promotion.

*Note: This course meets SBS and Global Diversity requirements with the exception of Marketing major students.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **MKT 2250 - Introduction to Sales**

**Credits:** 3

**Description:** This course introduces the environment of professional

selling and presents both consumers' and business buyers' perspectives. Areas covered include ethical considerations in professional selling and elements in the sales process. Students will meet industry representatives during classroom discussions to learn about potential career opportunities.

### **MKT 3000 - Principles of Marketing**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021, completion of General Studies requirements in Oral Communication and Quantitative Literacy, and at least junior standing.

**Description:** This course helps students understand marketing, the process through which organizations analyze, plan, implement, and control programs to develop and maintain beneficial exchanges with target buyers. Effective marketing is critical for the long-term success of any business organization because this function ensures that the firm attracts, retains, and grows customers by creating, delivering, and communicating superior customer value.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** HON 3003

### **MKT 3010 - Marketing Research**

**Credits:** 3

**Prerequisite(s):** BUS 1950, MKT 3000, and at least junior standing

**Prerequisite(s) or Corequisite(s):** CIS 3300 or equivalent college statistics course

**Description:** This course will provide the marketing student with a systematic and objective approach to the search for and analysis of information relevant to the identification and solution of marketing problems.

### **MKT 3100 - Retail Marketing**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and At least junior standing

**Description:** This course will familiarize the student with fundamental retailing concepts and practices. Emphasis will be given to a strategic-planning approach for developing and managing the retail marketing mix.

### **MKT 3110 - Advertising and Promotion Management**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and at least junior standing

**Description:** This course provides an in-depth understanding and analysis of advertising and promotional strategies and tactics necessary in the management of all marketing communications. Students will engage in environmental scanning, develop a creative strategy, and plan for communicating a message across multiple promotional platforms.

### **MKT 3160 - Sales Leadership**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and at least junior standing

**Description:** This course will provide students with opportunities to

explore various leadership styles and their respective impact on individual and group performance. Additionally, students will have the opportunity to adopt personal habits that have, historically, enabled marketplace success and led to managerial and leadership positions. Finally, students will be exposed to current marketplace leaders and hear the personal experiences that led to their career successes.

### **MKT 3190 - Marketing for Social Good**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and at least Junior standing

**Description:** In this class, students will gain an in-depth understanding of how marketing principles can be applied to create short-term and lasting social change in both non-profit and for-profit organizations. Using case studies and projects, students will apply marketing concepts such as segmentation, positioning, branding, and the marketing mix in order to address behavior objectives. Along the way, students will explore global issues, including those relating to health, environment, that impact society, government entities, NGO's, and the community at large. Further topics include developing long-term relationships with donors, cause-related marketing, and the role of socially responsible and environmentally sustainable marketing strategies in for-profit organizations.

### **MKT 3200 - Digital Marketing Fundamentals**

**Credits:** 3

**Prerequisite(s):** Junior Standing

**Description:** This course introduces students to the basics of digital marketing, including the process, platforms, and technologies used to build long-term customer relationships. The integration of digital marketing into the organization's overall marketing strategy is explored. The course emphasizes the legal and ethical implications of the field as well as the importance of planning, measurement, and actionable insights.

### **MKT 3250 - Personal Selling**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course examines the environment of personal selling and the process of personal selling. Areas covered include communicating with diverse customers, ethical and legal considerations in personal selling, and the elements of the personal-selling process. This course has a case orientation.

### **MKT 3300 - Marketing of Services**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and At least junior standing

**Description:** This course will introduce students to the problems and issues that are unique to marketing a service organization as well as marketing services. Topics include service strategy, listening to customers, complaint management, service guarantees, customer satisfaction, measuring return on quality, managing moment of truth, relationship marketing, and employee empowerment.

### **MKT 3310 - Consumer Behavior**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and at least junior standing

**Description:** This course analyzes the underlying theories and complex variables influencing consumers and their purchase decision-making processes. The marketing strategy implications of consumer behavior concepts are studied.

### **MKT 3320 - Inside Sales**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** Inside sales and remote sales are a growing proportion of bottom-line sales results. Such an expansion is motivated by an increased reliance on technology and automation, changing buyer attitudes towards salespeople, and the desire for a more streamlined process. This course focuses on the skills and competencies that are critical for today's demanding virtual selling environment.

### **MKT 3330 - Marketing and Sales Metrics**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and junior standing

**Description:** Marketing and sales have become increasingly reliant on data-driven techniques to solve business problems like segmentation, pricing, prospecting, customer valuation, campaign optimization, ROI, and more. This course focuses on tools and approaches to evaluate the impact of marketing and sales efforts.

### **MKT 3350 - Social Selling**

**Credits:** 3

**Prerequisite(s):** MKT3250

**Description:** Social Selling is a key resource for sales and marketing professionals seeking a better way to connect with today's customer where they're conducting due diligence - online. This course will show students how to capture the mindshare of business leadership and turn relationships into sales. Students will learn the online techniques used to be seen as a helpful resource that can guide the buyer toward their ideal solution. This course will provide essential guidance on selling to the modern buyer.

### **MKT 3410 - Marketing Channels**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and junior standing

**Description:** This course is a comprehensive examination of the theories and practice of marketing channels. The course covers the essential concepts, principles, and strategies of marketing distribution systems with the aid of extensive real-life examples. The various forms of intermediaries are studied. Students examine the basic decision areas of designing, selecting, and managing marketing channels. Attention is also given to logistics and international distribution.

### **MKT 3500 - Sports Marketing**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course is a study of how the principles of marketing are applied in the sports industry. The course examines the marketing of sports, teams, athletes, etc., as well as the use of sports to market products (e.g., sponsorship and promotional licensing).

### **MKT 3610 - Business-to-Business Marketing**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and At least junior standing

**Description:** In this course, students will investigate the activities involved in marketing goods and services to businesses, institutions, resellers, and government, with primary emphasis on business-to-business marketing.

### **MKT 3710 - International Marketing**

**Credits:** 3

**Prerequisite(s):** BUS 1950, MKT 3000 and At least junior standing

**Description:** The primary objective of this course is to introduce students to the complexities involved in the international marketing process. This course will sensitize students to the economic, political, and cultural differences among nations as they affect marketing; introduce students to the framework of organizations, laws, and business practices as they affect marketing; and develop a student's ability to identify and evaluate marketing opportunities in the international marketplace.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** HON 3712

### **MKT 3750 - Multicultural Marketing**

**Credits:** 3

**Prerequisite(s):** Junior or Senior Standing

**Description:** This course examines consumer behavior as an expression of race, ethnicity and gender. It is designed to cultivate an awareness and appreciation of consumer diversity in the United States. Students will develop an understanding of marketing management strategies and practices within a multicultural society. Market opportunities created by consumer diversity in the U.S. is a central theme. Drawing from the social science and marketing literature, the course broadens the student's knowledge of the significance of consumer behavior from within a given culture.

**University Requirement(s):** Multicultural

### **MKT 3910 - New Product Development**

**Credits:** 3

**Prerequisite(s):** MKT 3000 or MKT 8900

**Description:** This course introduces students to the issues related to developing new products. These issues include creativity and innovation, idea generation, product design, prototyping, market testing, financial analysis, and managing the process for productivity, efficiency, and success. Through classroom and experiential learning activities, students will learn the concepts and skills of new product development and complete a new product project.

## **MKT 3980 - Internship in Marketing**

**Credits:** 1-15

**Prerequisite(s):** Major or minor in Department of Marketing program; major in Global Business or International Business; junior standing; MKT 3000 or equivalent; 2.5 cumulative GPA; permission of instructor

**Description:** Internships provide practical, hands-on experience in a professional field related to marketing. The internship must be based on work that is new to the student and supervised by a marketing professional. Internship placements must be approved through the internship credit approval process. Once enrolled, internship coursework is supervised by a faculty member. Students will complete academic work that encourages reflection regarding the approved learning objectives for the internship.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable credit based on hours of work; 50 hours of work = 1 credit. Up to 6 credits (3 at a time) may be applied as marketing electives. Credits earned above 6 and up to 15 will count as general electives.*

## **MKT 3981 - Internship in Sales**

**Credits:** 1-15

**Prerequisite(s):** Major or minor in department of Marketing, major in Global Business, major in International Business; MKT 3000 or equivalent; junior status; 2.5 cumulative GPA; permission of instructor

**Description:** Internships provide practical, hands-on experience in a professional field related to professional selling. The internship must be based on work that is new to the student and supervised by a sales professional. Internship placements must be approved through the internship credit approval process. Once enrolled, internship coursework is supervised by a faculty member. Students will complete academic work that encourages reflection regarding the approved learning objectives for the internship.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit based on hours of work; 50 hours of work = 1 credit. Up to 6 credits (3 at a time) may be applied as sales and/or marketing electives. Credits earned above 6 and up to 15 will count as general electives.*

## **MKT 4110 - Brand Management**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and junior standing

**Description:** This course will cover brand management in-depth, demonstrate how marketing activities impact the power of an organization's brand, and examine the strategic importance of

effectively managing a brand. Students will develop an ability to assess brands and implement action plans based on a strategic marketing orientation.

*Note: Some sections of this course may be taught as Service Learning.*

## **MKT 4200 - Content Marketing**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and junior standing

**Description:** Content marketing is a strategic approach to creating online content that furthers an organization's brand and ties into a broader integrated marketing communication strategy. It focuses on the creation of content that is useful for a clearly defined target audience throughout the customer life cycle and ultimately drives the organization's profitability. This course provides a framework for students to navigate the fast changing environment of the web and social media under the lens of content creation. Students will develop the skills needed to develop and execute a successful content marketing plan.

## **MKT 4250 - Advanced Selling**

**Credits:** 3

**Prerequisite(s):** MKT 3250 and senior standing

**Description:** Students sharpen the skills developed in sales classes to focus on relationship selling and integrate value-added selling, major account selling, team selling, negotiating, proposal writing, and business-to-business selling. Complex selling situations that involve multiple decision makers will be evaluated.

**University Requirement(s):** Senior Experience

## **MKT 4300 - Social Media Marketing**

**Credits:** 3

**Prerequisite(s):** MKT 3000 and junior standing

**Description:** This course covers advertising, marketing, and communication strategies in the new media landscape where traditional media (e.g. television, print) and the online social media (e.g. Web 2.0, online social networks, user-generated content, blogs, forums) co-exist. The primary focus of this course will be on understanding social media, how to build social media marketing strategies, and how to track their effectiveness. Students taking Social Media Marketing will learn the applications of social media to the fulfillment of marketing objectives, particularly those related to the promotion function of the marketing mix. In particular, students will be able to analyze the social context in which a brand operates and audit a brand's social media positioning, as well as develop strategies for marketing using the zones of social media.

## **MKT 4520 - Seminar in Marketing Management**

**Credits:** 3

**Prerequisite(s):** MKT 3000, 6 additional hours of completed marketing credits, and Senior standing

**Description:** This course is the culminating final course required of all Marketing minor students (and a marketing elective for Marketing majors). In this final course, the student will develop and apply

marketing strategies and policies in solution to problems related to the consumer and the business environment.

*Note: Credit will be granted for only one prefix: HON or MKT.*

**Cross Listed Course(s):** HON 4521

### **MKT 4540 - Digital Marketing Science**

**Credits:** 4

**Prerequisite(s):** MKT 3000, MKT 3200, plus 3 additional upper-division MKT credits

**Description:** In this course, students apply advanced, hands-on digital marketing skills in the context of overall business and marketing strategy. The course includes customer analysis, content strategy, and digital marketing planning, implementation, measurement, and evaluation. The course qualifies students for certifications in current, relevant digital marketing platforms. Students gain experience by working with a team to develop and execute a digital marketing campaign for a real-world client.

### **MKT 4560 - Marketing Strategy**

**Credits:** 3

**Prerequisite(s):** MKT 3010, MKT 3310, and Senior standing

**Description:** This culminating course for all marketing majors emphasizes the case approach to the study of marketing problems. Problem areas to be studied include market and profitability analysis, marketing planning, strategy, and control.

## **Mathematical Sciences**

### **MTH 1051 - Principles of Mathematics Laboratory for Chemistry 1100**

**Credits:** 1

**Corequisite(s):** CHE 1100

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on building algebraic and study skills for the Nursing majors enrolled in CHE 1100.

### **MTH 1080 - Mathematics for Liberal Arts**

**Credits:** 3

**Prerequisite(s):** One and one-half years of high school algebra or the equivalent and an appropriate score on the mathematics preassessment placement test.

**Description:** This course is an introduction to the spirit and methods of mathematics. It includes problem-solving strategies, introductory financial mathematics, probability, statistics, and other topics demonstrating the interdisciplinary applicability of mathematics.

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 1081 - Mathematics for Liberal Arts with Laboratory**

**Credits:** 3

**Corequisite(s):** MTH 1082

**Description:** This course is equivalent to MTH 1080 - Mathematics

for Liberal Arts, but with a co-requisite lab that provides supplemental academic instruction. The course is an introduction to the spirit and methods of mathematics. It includes problem-solving strategies, introductory financial mathematics, probability, statistics, and other topics demonstrating the interdisciplinary applicability of mathematics.

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 1082 - Mathematics for Liberal Arts Laboratory**

**Credits:** 1

**Corequisite(s):** MTH 1081

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on building mathematical and study skills needed in Mathematics for Liberal Arts.

### **MTH 1101 - College Algebra Laboratory**

**Credits:** 1

**Corequisite(s):** MTH 1111

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on building algebraic and study skills needed in College Algebra for Calculus.

### **MTH 1108 - College Algebra Stretch, Part I**

**Credits:** 4

**Prerequisite(s):** An approved score on the mathematics pre-assessment placement test

**Description:** This course is the first half of a two-semester sequence (consisting of MTH 1108 followed by MTH 1109); the two-semester course is equivalent to MTH 1110 (College Algebra) and is a prerequisite for MTH 1120 and the calculus sequence. The topics covered in MTH 1108 include equations and inequalities, the function notation and a detailed study of linear and quadratic functions and their properties; in addition, students enrolled in MTH 1108 review basic algebraic skills, such as factoring methods, properties for rational and root expressions, and geometrical formulas.

*Note: All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required. A student cannot receive credit for both MTH 1110 or MTH 1111 and MTH 1108.*

### **MTH 1109 - College Algebra Stretch, Part II**

**Credits:** 4

**Prerequisite(s):** MTH 1108 with a grade of "C-" or better

**Description:** This course is the second half of a two-semester sequence (consisting of MTH 1108 followed by MTH 1109); the two-semester course is equivalent to MTH 1110 (College Algebra) and is a prerequisite for MTH 1120 and the calculus sequence. The topics covered in MTH 1109 include exponential and logarithmic functions, conic sections, systems of equations and the binomial theorem; in addition, students enrolled in MTH 1109 will review algebraic skills, such as solving linear and quadratic equations, graphing techniques and mathematical modeling.

*Note: All sections will integrate the use of a graphing calculator into*

the course. A specific calculator will be required. A student cannot receive credit for both MTH 1110 and MTH 1109.

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### MTH 1110 - College Algebra for Calculus

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics preassessment placement test.

**Description:** The topics covered include equations and inequalities, functions and graphs, exponents and logarithms, conic sections, linear systems, and the binomial theorem. Basic algebraic skills are essential as a prerequisite to this course. All sections integrate the use of a graphing calculator into the course.

*Note: Only one of MTH 1109, MTH 1110, MTH 1111 and MTH 1112 will count toward graduation. Credit will be granted for only one prefix: HON or MTH.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

**Cross Listed Course(s):** HON 1110

### MTH 1111 - College Algebra for Calculus with Laboratory

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one-half years of secondary school algebra or equivalent and appropriate score on the mathematics preassessment placement test.

**Corequisite(s):** MTH 1101

**Description:** This course is equivalent to MTH 1110 - College Algebra for Calculus, but with a co-requisite lab that provides supplemental academic instruction. The topics covered include equations and inequalities, functions and graphs, exponents and logarithms, conic sections, linear systems, and the binomial theorem. Basic algebraic skills are essential as a prerequisite to this course. All sections integrate the use of a graphing calculator into the course.

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### MTH 1112 - College Algebra Through Modeling

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one half years of secondary school algebra or equivalent and an appropriate score on the mathematics preassessment placement test.

**Description:** This course places a greater emphasis on applications and data analysis than MTH 1110, College Algebra. The topics covered include: deriving functions to model situations; linear, exponential and logarithmic, power, quadratic functions and their properties and graphs; exponents and logarithms; data analysis and regression; rates of change; and linear systems and equations. Basic algebraic skills are essential as a prerequisite to this course. All sections integrate the use of a graphing calculator into the course. A specific calculator is required.

*Note: Only one of MTH 1109, MTH 1110, MTH 1111 and MTH 1112 will count toward graduation.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### MTH 1115 - College Algebra through Modeling with Laboratory

**Credits:** 4

**Prerequisite(s):** An intermediate algebra course or one and one half years of secondary school algebra or equivalent and an appropriate score on the mathematics preassessment placement test

**Corequisite(s):** MTH 1116

**Description:** This course is equivalent to MTH 1112 - College Algebra Through Modeling except that a 1 credit lab course must be taken at the same time. This course places a greater emphasis on applications and data analysis than MTH 1110 - College Algebra for Calculus. The topics covered include: deriving functions to model situations; linear, exponential and logarithmic, power, quadratic functions and their properties and graphs; exponents and logarithms; data analysis and regression; rates of change; and linear systems and equations. Basic algebraic skills are essential as a prerequisite to this course. All sections integrate the use of a graphing calculator into the course. A specific calculator is required.

*Note: Note: Only one of MTH 1109, MTH 1110, MTH 1111, MTH 1112, and MTH 1115 will count toward graduation.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### MTH 1116 - College Algebra through Modeling Laboratory

**Credits:** 1

**Corequisite(s):** MTH 1115

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on building algebraic and study skills needed in College Algebra through Modeling.

### MTH 1120 - College Trigonometry

**Credits:** 3

**Prerequisite(s):** MTH 1109 or MTH 1110 or MTH 1111 or MTH 1112, each with a grade of "C-" or better or an appropriate score on the mathematics preassessment placement test.

**Description:** The topics covered include trigonometric functions, equations, and identities, solution of triangles, and complex numbers. A specific graphing calculator will be required.

**Guaranteed Transfer:** GT-MA1

### MTH 1210 - Introduction to Statistics

**Credits:** 4

**Prerequisite(s):** Two years of high school algebra or equivalent and an appropriate score on the mathematics preassessment test, or one of MTH 1080 or MTH 1109 or MTH 1110 or MTH 1112 or MTH 1610 with a "C-" or better.

**Description:** This course is an introduction to the principles and techniques of descriptive statistics, probability, regression analysis, and statistical inference (estimation and tests of hypotheses). Students work with data on problems related to their own interest or field of study.

*Note: Credit will not be given for both MTH 1210 and MTH 1230.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 1310 - Finite Mathematics for the Management and Social Sciences**

**Credits:** 4

**Prerequisite(s):** One and one-half years of high school algebra or equivalent and an appropriate score on the mathematics preassessment placement test.

**Description:** This course stresses the application of mathematics to business and the social sciences. The topics covered include evaluation and graphing of functions, the geometry of straight lines, operations on matrices, solving systems of equations, and an introduction to set theory and probability theory. All sections integrate the use of a graphing calculator into the course.

*Note: A specific calculator will be required.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 1311 - Finite Mathematics for the Management and Social Sciences with Laboratory**

**Credits:** 4

**Prerequisite(s):** One and one-half years of high school algebra or equivalent and an appropriate score on the mathematics preassessment placement test.

**Corequisite(s):** MTH 1312

**Description:** This course is equivalent to MTH 1310 - Finite Mathematics for the Management and Social Sciences, but with a co-requisite lab that provides supplemental academic instruction. This course stresses the application of mathematics to business and the social sciences. The topics covered include evaluation and graphing of functions, the geometry of straight lines, operations on matrices, solving systems of equations, and an introduction to set theory and probability theory. All sections integrate the use of a graphing calculator into the course.

*Note: A specific calculator will be required. Students cannot earn credit for both MTH 1310 and MTH 1311.*

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 1312 - Finite Mathematics Laboratory**

**Credits:** 1

**Corequisite(s):** MTH 1311

**Description:** This one-hour lab provides supplemental academic instruction with an emphasis on building algebraic and study skills needed in Finite Mathematics for the Management and Social Sciences.

### **MTH 1320 - Calculus for the Management and Social Sciences**

**Credits:** 3

**Prerequisite(s):** MTH 1310 with a grade of "C-" or better (MTH 1109, MTH 1110, MTH 1112, or MTH 1400 with a grade of "C-" or better will be accepted, if necessary). Graphing calculator experience is expected.

**Description:** This course is an introduction to calculus emphasizing applications in business and social sciences. Topics include differentiation, partial differentiation, indefinite and definite

integration. All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required.

**Guaranteed Transfer:** GT-MA1

### **MTH 1400 - Precalculus Mathematics**

**Credits:** 4

**Prerequisite(s):** Completion of either MTH 1109 or MTH 1110 or MTH 1111, and MTH 1120 with grades of "C-" or better or other evidence showing knowledge of this material or an appropriate score on a department-approved placement test.

**Description:** This is a course covering the essentials of the algebraic and graphical properties of the polynomial, rational, exponential, logarithmic, and trigonometric functions. It is designed to prepare students for MTH 1410. All sections will integrate the use of a graphing calculator into the course.

*Note: A specific calculator will be required.*

**Guaranteed Transfer:** GT-MA1

### **MTH 1410 - Calculus I**

**Credits:** 4

**Prerequisite(s):** Either MTH 1109 or MTH 1110 or MTH 1111, and MTH 1120, with grades of "C-" or better, or MTH 1400 with a grade of "C-" or better

**Description:** This is a first course in calculus for science and engineering. The topics covered include derivatives of polynomials, trigonometric, exponential and logarithmic functions, applications of the derivative, the definite integral, and the fundamental theorem of calculus. All sections of the course will make integrated use of the software package Mathematica and/or a graphing calculator.

*Note: Credit will be granted for only one prefix: HON or MTH.*

**Guaranteed Transfer:** GT-MA1

**Cross Listed Course(s):** HON 1410

### **MTH 1610 - Integrated Mathematics I**

**Credits:** 3

**Prerequisite(s):** Three semesters of high school algebra or equivalent, and an appropriate score on the mathematics preassessment test or permission of instructor.

**Description:** This course integrates mathematical topics, including those from algebra, geometry, probability and statistics. Students take a concept-oriented approach to: exploring critical problems from an advanced standpoint; deriving and justifying multiple solutions; and analyzing and communicating the reasoning behind these solutions.

**General Studies:** Quantitative Literacy

**Guaranteed Transfer:** GT-MA1

### **MTH 2140 - Computational Matrix Algebra**

**Credits:** 2

**Prerequisite(s):** MTH 1120 or MTH 1400 or equivalent, with a grade of "C-" or better

**Description:** This course is an introduction to computational matrix algebra. The computations will be done by hand and by using an appropriate software package. The course will include the following topics: matrix operations, determinants, solutions of linear systems of

equations, and eigenvalues and eigenvectors.

*Note: Only one of the three courses MTH 2140, 3130, 3140 can be counted in the Mathematical Sciences major or minor.*

### **MTH 2410 - Calculus II**

**Credits:** 4

**Prerequisite(s):** MTH 1410 with a grade of "C-" or better, or permission of instructor

**Description:** This is a second course in calculus. The topics covered include techniques of integration, applications of the integral and infinite series, including Taylor's series. All sections of the course will make integrated use of the software package Mathematica and/or a graphing calculator.

### **MTH 2420 - Calculus III**

**Credits:** 4

**Prerequisite(s):** MTH 2410 with a grade of "C-" or better, or Permission of instructor

**Description:** This course in the calculus of functions of more than one variable includes the following topics: partial derivatives, definite integrals over plane and solid regions, vectors and their applications, and Green's Theorem and its generalizations. All sections of the course will make integrated use of the software package Mathematica.

### **MTH 2510 - Computer Programming with Mathematica**

**Credits:** 4

**Prerequisite(s):** MTH 1410 with a grade of "C-" or better; or permission of instructor

**Description:** This is an introductory programming course using the software package Mathematica for students in mathematics. Programming types will include structured, functional, and rule-based.

### **MTH 2520 - R Programming**

**Credits:** 4

**Prerequisite(s):** MTH 1110 with a grade of "C-" or better, or MTH 1112 with a grade of "C-" or better, or MTH 1310 with a grade of "C-" or better, or permission of instructor

**Description:** This is an introductory course in scientific programming with applications in statistics and mathematics, as well as the natural, physical and social sciences, using the R programming language. R is a free, open-source tool that is widely used for analyzing and processing data. Students will learn basic programming skills, including writing functions, managing data sets, and creating customized graphics.

### **MTH 2540 - Scientific Computing with Python**

**Credits:** 4

**Prerequisite(s):** MTH 1110 with a grade of "C-" or better, or permission of instructor.

**Description:** This course introduces students to Scientific Programming in Python with a hands-on approach. Students learn to

solve problems from disciplines such as mathematics, engineering, biology, physics, chemistry and other natural sciences via execution of computational algorithms.

### **MTH 2620 - Integrated Mathematics II**

**Credits:** 3

**Prerequisite(s):** MTH 1610 with a grade of "C-" or better, or permission of instructor

**Description:** This course continues the concept-oriented, integrated study of mathematical topics including those from algebra, geometry, statistics, and combinatorics. Students further deepen their mathematical understanding and their ability to justify solutions and analyze and communicate their reasoning about complex problems.

### **MTH 3100 - Introduction to Mathematical Proofs**

**Credits:** 3

**Prerequisite(s):** MTH 2410 with a grade of "C-" or better, and Permission of the Department of Mathematics and Statistics

**Description:** This course is designed to introduce the student to mathematical proofs and abstract mathematics with topics in logic, induction, sets, relations, and functions.

*Note: Credit will be granted for only one of the two courses MTH 3100 or MTH 3170.*

### **MTH 3110 - Abstract Algebra I**

**Credits:** 4

**Prerequisite(s):** MTH 3100 with a grade of "C-" or better; or Permission of instructor

**Description:** This course is a survey of the principle structures of modern abstract algebra, including introductions to the theories of groups, rings, integral domains, and fields. Each structure is introduced by examples, then basic properties are derived, and the appropriate applications are introduced.

### **MTH 3130 - Applied Methods in Linear Algebra**

**Credits:** 4

**Prerequisite(s):** MTH 1410 with a grade of "C-" or better

**Description:** This is a course in the principles and application of matrix methods, primarily to problems in science and engineering fields. Topics include solving systems of linear equations, matrix algebra, the vector space  $\mathbb{R}^n$ , eigenvalues and eigenvectors, and orthogonality, with a focus on applications. A software package such as Mathematica is used in this course.

*Note: Only one of the three courses MTH 2140, MTH 3130, MTH 3140 can be counted in the mathematics major or minor.*

### **MTH 3140 - Linear Algebra**

**Credits:** 4

**Prerequisite(s):** MTH 3100 with a grade of "C-" or better, or MTH 3170 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an introduction to the theory and application of vector spaces, linear transformations, matrix representations, eigenvalues, and eigenvectors. A software package

will be used in this course.

*Note: Only one of the three courses MTH 2140, MTH 3130, or MTH 3140 may be counted in the mathematics major or minor. Credit will be granted for only one prefix: HON or MTH.*

**Cross Listed Course(s):** HON 3140

### **MTH 3170 - Discrete Mathematics for Computer Science**

**Credits:** 4

**Prerequisite(s):** MTH 2410 and CS 2050 and permission of the Department of Mathematics and Statistics.

**Description:** This course provides a foundation in mathematical proofs and abstract mathematics in the context of discrete mathematics. Mathematical topics in the course are chosen for their relevance to computer science, and include combinatorics, set theory, graph theory, and recurrence relations. Only one of MTH 3100 and MTH 3170 will count toward graduation.

### **MTH 3210 - Probability and Statistics**

**Credits:** 4

**Prerequisite(s):** MTH 1410 with grade of C- or better or permission of instructor

**Description:** This is a course in the application and theory of the principles of probability and statistics in the sciences and engineering. It includes descriptive statistics, linear regression, probability, random variables and their distributions, estimation, and tests of hypotheses.

### **MTH 3220 - Statistical Methods**

**Credits:** 4

**Prerequisite(s):** MTH 3210 with a grade of "C-" or better, or permission of instructor

**Description:** This is a course in the application and theory of statistical inference in science and engineering. It includes two sample inferences, experimental design, analysis of variance, nonparametric statistics, chi-squared tests, and regression analysis.

### **MTH 3230 - Stochastic Processes**

**Credits:** 4

**Prerequisite(s):** MTH 3210, and MTH 2140 or MTH 3130 or MTH 3140, all with a grade of C- or better, or permission of the instructor

**Description:** This course gives a general introduction to random processes and their applications. It includes Markov chains, Markov processes, random walks, branching processes, the Poisson process, queuing theory, and Brownian motion.

### **MTH 3240 - Environmental Statistics**

**Credits:** 4

**Prerequisite(s):** MTH 1210 and either MTH 1110 or MTH 1112 with grades of "C-" or better, or permission of instructor

**Description:** This is a course in inferential statistics, sampling techniques, and quality control as they relate to environmental issues. Students will work with data and problems related to the

environmental science field of study. This course does not count towards a major or minor in mathematics.

### **MTH 3270 - Data Science**

**Credits:** 4

**Prerequisite(s):** MTH 2520 or CS 2050, and either MTH 1210 or MTH 3210, all with grades of C- or better, or permission of the instructor.

**Description:** Data science combines elements from statistics, data analysis, computer programming, and machine learning to form a new field concerned with gleaning information from various forms of data. Using real-world data and active learning, this course covers topics that include data visualization, data wrangling and tidying, statistical modeling, statistical learning, and database querying.

### **MTH 3400 - Chaos and Nonlinear Dynamics**

**Credits:** 4

**Prerequisite(s):** MTH 2410 with a grade of C- or better, or permission of instructor.

**Description:** This course is an introduction to dynamical systems from the extension of Newtonian physics to the modern development of chaos theory and nonlinear dynamics. The dynamics of linear and nonlinear systems are analyzed. Applications to numerous physical systems are studied. Algorithms for generating intricate fractal images and the mathematics behind the images are also developed.

### **MTH 3420 - Differential Equations**

**Credits:** 4

**Prerequisite(s):** MTH 2420 with a grade of "C-" or better, or Permission of instructor

**Description:** This course includes a study of first, second, and higher order differential equations and systems giving solutions in closed form, by numerical approximations, and through Laplace Transforms. These techniques are applied to problems in the physical sciences and engineering. All sections will integrate the use of the software package Mathematica into the course.

*Note: Credit will be granted for only one prefix: HON or MTH.*

**Cross Listed Course(s):** HON 3420

### **MTH 3430 - Mathematical Modeling**

**Credits:** 4

**Prerequisite(s):** MTH 3420 Differential Equations, with a "C-" or better, or permission of the instructor.

**Description:** In this course, students learn the advanced mathematical modeling process through derivations and analysis of standard mathematical models (deterministic, stochastic, and numerical). This modeling process expands on material from calculus and differential equations. Students also utilize software/programming to implement numerical models. Students translate real-world problems into mathematical models, use these to make predictions, and evaluate the effectiveness of their models. Students reflect on mathematical models and suggest ways to improve them. Upon successful completion of this course, students should be able to effectively communicate to the broader community

the meaning and significance of the mathematical models studied as well as the importance of mathematical modeling in general.

#### **MTH 3440 - Partial Differential Equations**

**Credits:** 4

**Prerequisite(s):** MTH 3420 with a grade of "C-" or better, or Permission of instructor

**Description:** This is a course in partial differential equations and their solutions. It includes separation of variables techniques, Fourier series, and applications to the heat equation, the wave equation, and the potential equation. All sections will integrate the use of the software package Mathematica into the course.

#### **MTH 3470 - Introduction to Discrete Mathematics and Modeling**

**Credits:** 4

**Prerequisite(s):** MTH 2410 with a grade of "C-" or better, or permission of instructor

**Description:** This is a problem-solving course, emphasizing (1) the use of cogent arguments to justify solutions to a wide variety of mathematical problems in combinatorics and graph theory and (2) the development of mathematical models to solve problems that arise in the digital world and in the physical, biological, or social sciences.

#### **MTH 3510 - SAS Programming**

**Credits:** 4

**Prerequisite(s):** MTH 3210 with a grade of "C-" or better; or permission of instructor

**Description:** This course covers techniques of data management using SAS programming. It includes reading and manipulating various types of data, creating reports, applying statistical procedures, and the use of SAS Enterprise Miner for data mining. At the end of the course the students take the "SAS BASE PROGRAMMER" certification exam (administered by the SAS Corporation).

#### **MTH 3640 - History of Mathematics**

**Credits:** 4

**Prerequisite(s):** MTH 3100 with a grade of "C-" or better or permission of instructor

**Description:** In this course, students will learn about the history of mathematics through the discussion of mathematical problems from ancient to modern times and the people who formulated or solved them.

#### **MTH 3650 - Foundations of Geometry**

**Credits:** 3

**Prerequisite(s):** MTH 3100 with a grade of "C-" or better, or Permission of instructor

**Description:** This course will reexamine Euclidean geometry via Hilbert's axioms. This will allow a coherent approach to projective, Euclidean, non-Euclidean, and other related geometries. It is designed for prospective secondary teachers and others interested in modern geometric theories.

#### **MTH 4110 - Abstract Algebra II**

**Credits:** 3

**Prerequisite(s):** MTH 3110 or permission of instructor

**Description:** This course is a continuation of MTH 3110 with emphasis on an in-depth study of the properties of the structures introduced in MTH 3110. Topics include ideals and their properties, factor groups and factor rings, principal ideal domains, and field extensions, and will also include selections from advanced group theory, Galois theory, and finite fields.

#### **MTH 4150 - Elementary Number Theory**

**Credits:** 3

**Prerequisite(s):** MTH 3100 with a grade of C- or better, or permission of instructor

**Description:** This course introduces the basic concepts of number theory including the Euclidean algorithm, congruences, number-theoretic functions, and the Chinese remainder theorem.

#### **MTH 4210 - Probability Theory**

**Credits:** 4

**Prerequisite(s):** MTH 3210 with a grade of C- or better or permission of instructor

**Prerequisite(s) or Corequisite(s):** MTH 2420 with a grade of C- or better

**Description:** This is a course in the theory of discrete and continuous probability with applications in the sciences and engineering. It includes sample spaces, combinatorial probability, conditional probability, random variables, expectation and higher moments, and joint distributions.

**University Requirement(s):** Senior Experience

#### **MTH 4230 - Regression and Computational Statistics**

**Credits:** 4

**Prerequisite(s):** MTH 3220 and either MTH 2140, MTH 3130 or MTH 3140, all with grades of "C-" or better, or permission of instructor

**Description:** This course will cover advanced methods in regression analysis. Topics will include regression with one predictor variable, diagnostics and remedial measures, multiple regression, time series analysis and logistic regression. The students will use a statistical computer package.

#### **MTH 4250 - Statistical Theory**

**Credits:** 4

**Prerequisite(s):** MTH 4210 with a grade of "C-" or better; or permission of instructor

**Description:** This course covers the general mathematical theory that governs statistical inference. This includes a review of distribution theory and sampling distributions, theory of point estimation, theory of hypothesis testing, and theory of confidence intervals. In addition, it introduces decision theory and Bayesian analysis.

#### **MTH 4290 - Senior Statistics Project**

**Credits:** 2

**Prerequisite(s):** MTH 3210, MTH 3220, MTH 4210, and permission of instructor

**Description:** In this course students apply statistical techniques covered in previous course work to a real-world situation. Students write and present a report that describes the problem and examines the statistical methods used for analysis. Any statistical or probabilistic method, including experimental designs, probability models, inference, and data science techniques may be used.

### MTH 4410 - Real Analysis I

**Credits:** 4

**Prerequisite(s):** MTH 2420 and MTH 3100, each with a grade of "C-" or better, and senior standing, or permission of instructor

**Description:** This course in real analysis provides a rigorous development of the fundamental results from the Calculus of one variable. Topics include the structure of the real number system, sequences, continuous functions, differentiable functions, and the Riemann integral.

**University Requirement(s):** Senior Experience

### MTH 4420 - Real Analysis II

**Credits:** 3

**Prerequisite(s):** MTH 4410 with a grade of "C-" or better, or permission of instructor

**Description:** This course is a continuation of MTH 4410. It provides a rigorous development of infinite series, sequences & series of functions, and additional analysis topics chosen by the instructor.

### MTH 4450 - Complex Variables

**Credits:** 4

**Prerequisite(s):** MTH 2420 with a grade of C- or better, or permission of instructor

**Description:** This course is an introduction to complex numbers, analytic functions, conformal mapping, contour integrals, and residues and poles.

### MTH 4480 - Numerical Analysis I

**Credits:** 4

**Prerequisite(s):** MTH 2510 or MTH 2520 or CS 1050, and MTH 3140 or MTH 2140, and MTH 2410, all with grade of "C-" or better, and Senior standing, or permission of instructor

**Description:** This course includes numerical solutions of algebraic and transcendental equations, numerical differentiation and integration, numerical linear algebra, and polynomial interpolation. The use of a computer is an essential part of this course.

**University Requirement(s):** Senior Experience

### MTH 4490 - Numerical Analysis II

**Credits:** 4

**Prerequisite(s):** MTH 3420 and MTH 4480 with grades of "C-" or better, or permission of instructor.

**Description:** This course includes approximation of functions, non-

linear systems, numerical solutions of differential equations, and numerical techniques of integration.

### MTH 4600 - Seminar in Problem Solving

**Credits:** 1

**Prerequisite(s):** MTH 3100 or MTH 3420 or Permission of instructor

**Description:** This is a seminar in mathematical problem solving. Students will investigate factors of problem solving, such as belief systems, control mechanisms, heuristics, and mathematical resources. This investigation will be carried out in the context of working on a collection of problems designed to illustrate these factors. Problems from the William Lowell Putnam National Mathematics Examination are included in this collection.

### MTH 4660 - Introduction to Topology

**Credits:** 3

**Prerequisite(s):** MTH 3100 or permission of instructor

**Description:** This course includes topological spaces, functions, mappings and homeomorphisms, continuity, compactness, connectedness, some separation axioms, and metric spaces.

## Mathematics Teaching and Learning

### MTL 3600 - Mathematics of the Elementary Curriculum

**Credits:** 3

**Prerequisite(s):** MTH 1610

**Description:** This course approaches mathematical concepts outlined in *Colorado Model Content Standard for Mathematics* (grades K-6) from an advanced perspective. By examining video and written cases of children doing mathematics, students in this course will (1) connect their developing understanding of mathematics to the important mathematical concepts they will be required to teach; (2) turn their attention from understanding their own mathematical thinking, and the thinking of their classmates, to understanding the mathematical thinking of children; (3) lay the foundation for being able to learn mathematics from teaching.

### MTL 3620 - Mathematics of the Secondary Curriculum

**Credits:** 4

**Prerequisite(s):** MTH 3100 and at least 12 additional hours of upper-division mathematics, all with grades of "C-" or better, or Permission of instructor

**Description:** This course, to be taken in the semester immediately prior to MTL 3630, approaches the mathematical concepts outlined in the Colorado Model Content Standards for Mathematics from an advanced perspective. The course uses standards-based curriculum materials as the focus for: (1) exploration of the central ideas of the mathematics curriculum in grades 7 through 12 and the connections among them, and (2) making explicit the connections between content covered in the mathematics courses required for the major and content taught in the school mathematics classrooms.

### MTL 3638 - Secondary Mathematics Field Experience

**Credits:** 2

**Prerequisite(s):** MTL 3620 or Permission of instructor

**Corequisite(s):** MTL 3630 or permission of instructor

**Description:** Prospective teachers enrolled in this course will spend at least 80 hours with a mentor teacher in a secondary mathematics classroom. During this time, prospective teachers will apply the mathematical knowledge base developed in the mathematics major and in MTL 3620, and the framework for teaching developed in MTL 3630, to the problems of practice that arise in public-school classrooms of diverse learners. Prospective teachers in this course will direct a Secondary Mathematics Lesson Study, a mini teacher work sample.

### **MTL 3710 - Number and Operations for Elementary Mathematics**

**Credits:** 3

**Prerequisite(s):** MTL 3600 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an in-depth exploration of number and operations concepts that are relevant to elementary education. Topics will include pre-number concepts, place-value notation, decimals, scientific notation, basic number systems, interpretations and representations of numerical operations, and multiplicative reasoning.

### **MTL 3720 - Algebra Connections for Elementary Mathematics**

**Credits:** 3

**Prerequisite(s):** MTL 3600 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an in-depth exploration of algebra concepts that are relevant to elementary education. Topics will include algebraic axioms as generalizable properties of elementary arithmetic, algebraic notation, equations and inequalities, functions, and algebraic modeling.

### **MTL 3730 - Geometry and Measurement for Elementary Mathematics**

**Credits:** 3

**Prerequisite(s):** MTL 3600 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an in-depth exploration of geometry and measurement concepts that are relevant to elementary education. Topics will include representation of 3-dimensional objects in two dimensions, composition and decomposition of geometric figures, congruence and similarity, standard and non-standard measurement, basic geometric figures and their properties, plane coordinates, transformations, and an introduction to axiomatic reasoning and proof.

### **MTL 3740 - Statistics and Probability for Elementary Mathematics**

**Credits:** 3

**Prerequisite(s):** MTL 3600 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an exploration of basic concepts of

statistics and probability that are relevant to elementary education, including the application of these concepts to the interpretation of educational research and the assessment of student learning. Topics will include the nature and use of data, types of data, representations of data, basic concepts of probability, conclusions and inference with a focus on educational research, an introduction to qualitative research, and assessment of student learning.

### **MTL 3750 - Number and Algebra in the K-8 Curriculum**

**Credits:** 3

**Prerequisite(s):** MTL 3600 with a grade of "C-" or better, or permission of instructor

**Description:** This course is an in-depth exploration of number and algebra concepts relevant to K-8 education. Topics related to number include place value, basic number systems, interpretations and representations of numerical operations, and multiplicative reasoning. Algebra topics include algebraic axioms as generalizable properties of elementary arithmetic, algebraic notation, equations and inequalities, functions, and algebraic modeling.

### **MTL 3760 - Geometry and Statistics in the K-8 Curriculum**

**Credits:** 3

**Prerequisite(s):** MTH 2620 with a grade of "C-" or better, or permission of instructor

**Description:** This course is focused on "Mathematical Knowledge for Teaching" (Hill, Rowan, & Ball, 2005) in the context of geometry and statistics. This course is an in-depth exploration of geometry and statistics concepts that are relevant to K-8 education. Geometry topics include congruence and similarity, measurement, basic geometric figures and their properties, plane coordinates, transformations, and an introduction to axiomatic reasoning and proof. Statistics topics include the nature and use of data, types of data, representations of data, basic concepts of probability, conclusions and inference with a focus on educational research, and assessment of student learning.

### **MTL 3850 - STEM Teaching and Learning**

**Credits:** 2

**Prerequisite(s):** MTH 1110 or Permission of the instructor

**Description:** This course serves as a STEM pedagogy seminar with a focus on conceptual development, conceptual change, collaborative learning, students' conceptions of various topics in mathematics and science, practical issues encountered in facilitating learning, managing the classroom, formative and summative assessment, and differentiating instruction in a collaborative environment.

### **MTL 3858 - STEM Teaching and Learning Practicum**

**Credits:** 1

**Prerequisite(s):** MTH 1110 or permission of instructor

**Corequisite(s):** MTL 3650

**Description:** This course is the attached practicum experience for the STEM Teaching and Learning pedagogy seminar that is required for the Mathematics Major with Education concentration. Students will use the practicum to enhance practical experience and

understanding of key concepts from the co-requisite STEM seminar by working with faculty mentors for a focused classroom experience.

### **MTL 4630 - Teaching Secondary Mathematics**

**Credits:** 3

**Prerequisite(s):** MTL 3620 and Senior Standing; or Permission of Instructor

**Corequisite(s):** MTL 3638 or permission of instructor

**Description:** In this senior experience course, students examine teaching practice that supports conceptual understanding of mathematical ideas for all students in diverse classrooms. Prospective teachers enrolled in this course analyze teaching with particular attention to: planning for instruction; selecting and adapting curriculum materials; establishing classroom norms and expectations; fostering mathematical discourse; and assessing students' developing mathematical understanding. This course must be taken along with MTL 3638 - Secondary Mathematics Field Experience in the semester immediately prior to MTL 4690 - Student Teaching and Seminar: Secondary 7-12.

**University Requirement(s):** Senior Experience

### **MTL 4690 - Student Teaching and Seminar: Secondary 7-12**

**Credits:** 12

**Prerequisite(s):** completion of all mathematics course work and all teacher education course work required for licensure; department approval of all GPA requirements; completion of Application for Student Teaching

**Description:** This course is a 16-week, full-time field experience with a skilled mathematics mentor teacher, supervised by an "MTL mentor," the official college supervisor, in an accredited secondary school. Prospective teachers who enroll in this course will, with the close and continual support of the mentor-teacher, take on increasing responsibility for, and learn from, all aspects of the work of a full-time mathematics teacher. Prospective teachers and their mentors will participate in two Secondary Mathematics Lesson Studies (which, together, constitute the teacher work sample), and in regular seminars conducted by the MTL mentor and other members of the Department of Mathematical and Computer Sciences.

### **MTL 4710 - Issues in Elementary Mathematics Education**

**Credits:** 3

**Prerequisite(s):** MTL 3600 and at least two of MTL 3710, MTL 3720, MTL 3730, or MTL 3740, all with a grade of "C-" or better, or permission of instructor

**Description:** This course covers a variety of topics relevant to the role of an elementary mathematics specialist, including issues related to teaching such as equity and diversity, classroom environment, and basic ideas from cognitive psychology and learning theory. It will also cover issues related to mathematics education leadership, such as mathematics coaching, professional development, history of mathematics education, and the interpretation of data from national and international mathematics assessments.

## **Mechanical Engineering Technology**

### **MET 1000 - Introduction to Mechanical Engineering Technology**

**Credits:** 3

**Description:** This is an introductory course in mechanical engineering technology. Emphasis is placed on the design and creative process with examples from different areas within engineering technology. Students will learn how to develop the tools necessary to be successful in school and in industry by using theory, computer software, and working realworld problems. The engineering profession and its relation to current national, social, industrial, ethical, and international issues and problems will be discussed.

### **MET 1010 - Manufacturing Processes**

**Credits:** 3

**Description:** Basic fundamentals in the operation of machine tools are studied, including measuring tools, benchwork and layout, and tool grinding. The student performs various machine operations using the engine lathe, milling machine, vertical drills, and surface grinders.

### **MET 1040 - Introduction to Engineering**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score on math placement test

**Description:** This course is an introductory engineering course exposing students to a cross section of topics in contemporary civil, electrical and mechanical engineering disciplines to assist them with their education career choices. Students are taught to work in teams, introduced to the design process, utilize math and computer programs to analyze raw data and properly display their results in a presentation to their peers. The history of the engineering profession and its relation to current national, social, industrial, ethical, and international issues and problems will be discussed.

*Note: Credit will be granted for only one prefix: CET, EET, or MET.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

**Cross Listed Course(s):** CET 1040, EET 1040

### **MET 1050 - Introduction to Space**

**Credits:** 3

**Description:** This course introduces students to the challenges of working in space. Course activities lead to the design and construction of a working satellite for launch. The course is designed for both engineering and non-engineering students.

*Note: Credit will be granted for only one prefix: AES or MET.*

**Cross Listed Course(s):** AES 1050

### **MET 1200 - Technical Drawing I**

**Credits:** 3

**Description:** This is an introductory course in technical drawing. It covers the use of manual drawing instruments, lettering, various geometric constructions, and multi-view orthographic engineering

drawings. It introduces 2-D technical drawing using computer-aided design software.

### **MET 1210 - 3D Modeling**

**Credits:** 3

**Prerequisite(s):** MET 1200 or IND 1450 or CET 1215 with a grade of "C" or better; or permission of instructor

**Description:** This is a basic design course, which is designed to familiarize students with functional 3-D modeling using an appropriate software package. The course covers the basic functions needed to create part models, assemblies, and drawings. Emphasis is on the design philosophy, used in creating parts and assemblies.

### **MET 1310 - Principles of Quality Assurance**

**Credits:** 3

**Prerequisite(s):** Intermediate algebra or equivalent with a grade of "C" or better

**Description:** The course introduces the scope and function of quality assurance, including basic definitions, statistics, quality policy and objectives, manuals and procedures, concept of variation, inspection and sampling techniques, meteorology process control, methods and the elements of reliability. Current TQM and ISO 9000 standards are reviewed.

**Cross Listed Course(s):** HON 1310

### **MET 2010 - CNC Machining & Inspection**

**Credits:** 3

**Description:** This course introduces computer numerical control machine tools. Topics include CNC programming for machine setup, operation, and basic applications along with machined part inspection. Upon completion, students should be able to explain a CNC program, data input, and machine tool operation. Student will be able to compare dimension of physical components against technical drawings for quality control.

### **MET 2200 - Materials of Engineering**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1400 with grades of "C" or better

**Prerequisite(s) or Corequisite(s):** CHE 1100 or CHE 1800 with grade of "C" or better

**Description:** This lecture/laboratory course deals with basic properties of metals and non-metals, including the properties and behavior that govern their selection and design. Materials covered include ferrous and nonferrous metals, composites, plastics, ceramics, glass, wood, rubber and adhesives.

### **MET 3000 - Manufacturing Analysis**

**Credits:** 4

**Prerequisite(s):** MET 1010 or IND 2830, MET 1310, and MTH 1110 or MTH 1400, all with a grade of "C" or better

**Description:** This course introduces the organizational and functional requirements for effective production. Tolerance charts

and work piece control are used to plan the manufacturing sequence, select the preferred manufacturing equipment and the operational sequence.

### **MET 3070 - Machine Design**

**Credits:** 3

**Prerequisite(s):** MET 2200, CET 3135, and MET 3160 with grades of "C" or better

**Description:** The art of designing machines to accomplish specific purposes is studied. The student is introduced to the fundamental principles required to design the separate machine elements. The economics of design are stressed along with strength and safety considerations. The lab work uses selected software, e.g., ALGOR and AutoCAD, to produce the preferred design.

### **MET 3110 - Thermodynamics**

**Credits:** 3

**Prerequisite(s):** MTH 1410 and PHY 2311 with grades of C or better, or permission of instructor

**Description:** The fundamental laws of thermodynamics are studied. Basic concepts of energy, the thermodynamic system, dimensions and units, and the ideal-gas equation of state are studied. The course also covers closed and open systems, heat engines as well as reversible and irreversible processes.

### **MET 3125 - Heat Transfer with Laboratory**

**Credits:** 3

**Prerequisite(s):** PHY 2311 with a grade of "C" or better

**Description:** The three basic mechanisms of heat transmission are studied. Conduction, convection (free and forced), and radiant transmission are treated for both steady-state and transient conditions. The transient study is aided by computer solutions. The laboratory component provides experimental results for various conduction and convection tests. The student selects and installs thermocouples, calibrates equipment, records transient and steady-state data, analyzes results, compares data to theoretical predictions, and reports findings.

### **MET 3160 - Mechanics II-Dynamics**

**Credits:** 3

**Prerequisite(s):** CET 2150 and MTH 2410 with grades of "C" or better; or permission of instructor

**Description:** This course covers the principles of dynamics: Students learn about kinematics which is the study of the geometry of motion of a body without reference to the forces that cause the resulting motion. The course also covers kinetics which is the study of the relation existing between the forces acting on the body, the mass of the body, and the motion of the body.

### **MET 3185 - Fluid Mechanics**

**Credits:** 3

**Prerequisite(s):** MET 3160 with a grade of "C" or better or permission of instructor

**Description:** In this course, the following topics will be covered: physical properties of fluids, hydrostatics, kinematics, energy considerations, momentum, incompressible flow in pipes, compressible internal flow, pneumatic systems, flowloss calculations and flow measurement methods. Laboratory work will include calibration and use of equipment to measure hydrostatic forces on objects, verification of Bernoulli Equation, losses in piping system, flow profiles, and other fluid systems.

### **MET 3215 - Composites Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 1010 or IND 2830, and MET 2200, or permission of instructor

**Description:** This course is designed to provide students with working knowledge in design, manufacturing and selection of fiber-reinforced composite materials for engineering applications. The course introduces the various manufacturing methods utilized in modern industries, such as aerospace, automotive, and renewable energy. Topics include inspection, damage control and repair techniques, as well as material handling, safety and environmental requirements. The course contains laboratory modules designed to provide hands-on experience to emphasize practical aspects of the topics covered.

### **MET 3250 - Tool Design and Production Tooling**

**Credits:** 3

**Prerequisite(s):** MET 2200 and MTH 1120 with grades of "C" or better

**Description:** The course deals with production tooling requirements and tooling cost estimates. Design of tooling for turret lathes, automatic screw machines, multiple spindle lathes, and production milling machines is treated.

### **MET 3260 - Direct Digital Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 1210 or IND 3660 with a grade of "C" or better

**Description:** In this combination lab lecture course, students explore the latest applications of digital 3D scanning and direct digital manufacturing. Through this course, students are introduced to current developments and the critical challenges of digital 3D technologies. Emphasis is placed on practical experience in utilizing departmental equipment to produce digital 3D tiles and output them to appropriate direct digital manufacturing equipment. Students will apply knowledge of 3D scanners for reverse engineering and direct digital manufacturing purposes.

*Note: Credit will be granted for only one prefix: IND or MET.*

**Cross Listed Course(s):** IND 3260

### **MET 3300 - Statistical Process Control**

**Credits:** 3

**Prerequisite(s):** MET 1310 and MET 3000 with grades of "C" or better

**Description:** This course focuses on statistical process control with

emphasis on process capability, troubleshooting, analysis of variance and hypothesis testing.

*Note: Credit will be granted for only one prefix: HON or MET.*

**Cross Listed Course(s):** HON 3303

### **MET 3310 - Thermodynamics II**

**Credits:** 3

**Prerequisite(s):** MET 3110 and MTH 2410 with grades of "C" or better

**Description:** This, the second course in thermodynamics, deals with the consequence of the Second Law. The TDS equations are studied, as are entropy and efficiencies of some heat power engines. Standard gas and vapor cycles are investigated. The laboratory work includes various calorimetry, gravimetric and volumetric analyses, nozzles and internal combustion engine tests.

### **MET 3320 - Instrumentation Laboratory**

**Credits:** 3

**Prerequisite(s):** MET 3180 with a grade of "C" or better

**Description:** The student is introduced to standard mechanical tests and measurement techniques, e.g., installing thermocouples, strain gages, positioning static and total probes. ASME and ASTM test codes are studied, as are OSHA standards. Various physical property and system performance tests are set up, conducted and analyzed.

### **MET 3330 - Robotics for Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 2010 and EET 2000 with grades of "C" or better

**Description:** The course examines robotic components utilized in robots and automated systems. Manufacturing automation is analyzed as the robot is integrated with other flexible automation equipment. The focus is how to apply and design robotic, integrated, manufacturing systems. The laboratory work supplements the lectures using industrial robots for different applications.

### **MET 3410 - Geometric Dimensioning and Tolerancing**

**Credits:** 3

**Prerequisite(s):** MET 1210 and MET 1310 with grades of "C" or better

**Description:** Dimensioning practices as defined by ASME National Standards (Y14.5M-1994) are studied. Tolerance of form, tolerances of position, datums, concentricity, symmetry, and functional gaging concepts are also treated to produce low-cost and high-quality products.

### **MET 3610 - 3D Modeling**

**Credits:** 3

**Prerequisite(s):** MET 1200 with a grade of "C" or better

**Description:** This is a Pro/Engineer basic design course, which is designed to familiarize students with the basic functionality of Pro/Engineer software package. The course covers the basic functions needed to use Pro/E to create part models, assemblies, and

drawings. Emphasis is on the Pro/E design philosophy, used in creating parts and assemblies.

### **MET 3630 - Lean Manufacturing Systems Engineering**

**Credits:** 3

**Prerequisite(s):** MET 3000 with a grade of "C" or better

**Description:** This course introduces the student to production principles, planning, evaluation, deployment, and integration of Lean manufacturing theory and methods. The course covers the concepts of Lean and Six Sigma for both manufacturing and service businesses. Students are provided an overview of Lean, Six Sigma, and the Kaizen problem-solving methodologies.

### **MET 3735 - Computer Integrated Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 3630 with a grade of "C" or better

**Description:** This lecture-based course emphasizes the integration of manufacturing enterprise using computer integrated manufacturing (CIM) technologies. It employs CAD/CAM interface and other CIM subsystems, database management, facility layout, product documentation, process planning, production planning and control, Group technology, teamwork, and manufacturing operations and management to bring about a student-designed CIM-oriented enterprise. Results of using CIM on all major elements of product design, and manufacturing production and operational control systems.

### **MET 3980 - Internship in Mechanical Engineering Technology**

**Credits:** 1-15

**Prerequisite(s):** Major in Mechanical Engineering Technology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **MET 4000 - Project Engineering**

**Credits:** 3

**Prerequisite(s):** Senior standing

**Description:** The student is introduced to the project or team effort. The need for planning, control, and communication is stressed. Critical path methods are used to develop schedules. Figure-of merit methods are used to select preferred approaches/designs. Technical writing is stressed with an introduction to competitive proposal writing.

### **MET 4010 - Advanced Manufacturing Technology**

**Credits:** 3

**Prerequisite(s):** Grades of "C" or better in MET 3000, MET 3330 and EET 2000; completion of General Studies requirements; and senior standing.

**Description:** The course includes micromonitor process control analysis, fiber optics technology, CMOS technology, ultra precision controlled devices with artificial intelligence systems, industrial robots, fiber optics, and imagineering future applications.

### **MET 4070 - Computer Aided Design**

**Credits:** 3

**Prerequisite(s):** MET 3070 and MET 3210 with grades of "C" or better; completion of General Studies requirements; and senior standing.

**Description:** The student studies combined stresses, gearing, brakes, curved beams, etc., and undertakes the design of a complete machine. This is the second in the two-course machine design series. The analysis includes computer solutions.

### **MET 4080 - Computer Aided Manufacturing**

**Credits:** 3

**Prerequisite(s):** MET 2010, MET 3000, and either MET 3210 or EET 2350 with grades of "C" or better

**Description:** This is an advanced, computer-aided manufacturing course. Computer applications in configuration control, purchasing, vendor ratings, production control, inventory control and final product acceptance documentation are treated. Appropriate computer and machining software will be used.

### **MET 4100 - Senior Project I**

**Credits:** 1

**Prerequisite(s):** CET 3135, JMP 2610, and MTH 2420 with grades of "C" or better; Senior Standing

**Prerequisite(s) or Corequisite(s):** MET 3070 or MET 3000, and EET 2000 with grades of "C" or better

**Description:** In this course, students are required to work on the planning and designing of a team project in consultation with faculty advisors and industry contacts.

**University Requirement(s):** Senior Experience

### **MET 4110 - Senior Project II**

**Credits:** 2

**Prerequisite(s):** MET 4100 with a grade of "C" or better; Senior Standing

**Prerequisite(s) or Corequisite(s):** MET 4000

**Description:** In this course, the students complete the project they started in MET 4100. The project is built, tested, and demonstrated. Written technical reports and oral presentations on the project are required. Part of this course involves the student working with a faculty member who acts as a consultant.

**University Requirement(s):** Senior Experience

## **MET 4280 - Advanced Energy Technology**

**Credits:** 3

**Prerequisite(s):** MET 3125, PHY 2311, and PHY 2321 with grades of "C" or better

**Description:** This course focuses on the study of global energy flows, as well as the sources and uses of energy. Biological energy and ecosystems are introduced from the viewpoint of the engineering technologist. Energy-related environmental problems, including air and thermal pollution and radioactivity, are examined.

## **MET 4370 - Advanced Composite Structures: Design, Damage, Repair and Testing**

**Credits:** 3

**Prerequisite(s):** MET 3215 with a grade of "C" or better

**Description:** This lecture/laboratory course is the introduction of the student to the characterization methods for the anisotropic properties of advanced composite materials consisting of high-performance fibers suspended in polymeric matrices. This course includes study and practical application of design, damage control, composite repair, processes and tooling. Also overviews the concepts, principles, and methods employed for nondestructive evaluation (NDE) of composite structures and materials.

## **MET 4480 - Air Conditioning/Refrigeration**

**Credits:** 3

**Prerequisite(s):** MET 3110 and MET 3125 with grades of "C" or better

**Description:** In this course, thermodynamics and heat transfer principles to the analysis and design of refrigeration systems and comfort conditioning systems for buildings are introduced. Refrigeration cycles are studied. Operation and rating of system components are evaluated with specific emphasis on heat flow in condensers, evaporators, and cooling towers. Temperature and humidity control, along with air handling equipment and ducting, are studied.

## **Meteorology**

### **MTR 1400 - Weather and Climate**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics pre-assessment placement tests

**Description:** This course introduces the fundamental physical processes in the atmosphere—heat and energy, temperature, pressure, wind, clouds, precipitation, and stability. These concepts provide the basis for understanding weather systems, such as thunderstorms, tornadoes, and hurricanes. These processes are also applied to climatic patterns and the impacts of human activity on weather and climate, such as air pollution and climate change. An optional 1-credit lab course, MTR 2020 Weather and Climate Lab for Scientists, is available for students interested in additional experience in the measurement and analysis of atmospheric data, and is required for some science programs.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

### **MTR 1600 - Global Climate Change**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading, writing, and mathematics preassessment placement tests.

**Description:** This course presents the science behind global climate change from an Earth systems and atmospheric science perspective. These concepts then provide the basis to explore the effect of global warming on regions throughout the world. This leads to the analysis of the observed and predicted impacts of climate change on these regions; the effect of these changes on each region's society, culture, and economy; and the efforts of these regions to mitigate or adapt to climate change. The interdependence of all nations will be discussed in regards to fossil fuel-rich regions, regions responsible for greenhouse gas emissions, and regions most vulnerable to the impacts of climate change.

**General Studies:** Natural and Physical Sciences, Global Diversity

**Guaranteed Transfer:** GT-SC2

### **MTR 2020 - Weather and Climate Lab for Scientists**

**Credits:** 1

**Prerequisite(s):** Algebra (MTH 1109, MTH 1110, or MTH 1112) or higher (MTH 1120, MTH 1400, or MTH 1410)

**Prerequisite(s) or Corequisite(s):** MTR 1400

**Description:** Students are introduced to the basic measurements, calculations and analysis made in the study of atmospheric science. Meteorological lab work in the course includes surface and upper-air charts, thermodynamic diagrams, weather codes, and weather imagery. Students analyze and display weather data in multiple formats, using both traditional hand analysis and using computer analysis and display software.

### **MTR 2040 - Computer Applications for Meteorology**

**Credits:** 1

**Prerequisite(s):** MTR 1400

**Description:** The field of meteorology uses a range of data analysis, visualization software, and programming languages to display and analyze weather data. This course introduces students to basic programming and software to create a foundation in using computers for meteorology or any field that uses meteorological data.

### **MTR 2050 - Community Climate Initiatives**

**Credits:** 2

**Prerequisite(s):** Completion of Quantitative Literacy (QL12) Requirement

**Description:** Students interact with local communities to develop climate action plans. To prepare for this, students examine neighborhood carbon and water usage, including statistical and qualitative analysis of different reduction strategies and technologies. This course is service learning based and participation in neighborhood meetings is required.

*Note: Some sections of this course may be taught as Service Learning.*

### **MTR 2410 - Weather Observing Systems**

**Credits:** 3

**Prerequisite(s):** MTR 2020 or MTR 2400

**Description:** This course provides a survey of the instruments and instrument systems used in operational and research meteorology. The theory of instrument measurement and error, operating principles, and method of operation of surface- and upper-air sensors, as well as radar and satellites, will be presented. The lab component of the course will involve the theory, use, calibration, and maintenance of instruments and the analysis and interpretation of the observations.

### **MTR 3100 - Air Pollution**

**Credits:** 3

**Prerequisite(s):** ENV 1200 or MTR 2020 or MTR 2400

**Description:** This course examines the causes and control of air pollution. Topics include pollutant sources and sinks, regional and global-scale pollution problems, monitoring and sampling techniques, regulatory control, meteorological influences, and indoor air quality.

**Cross Listed Course(s):** ENV 3100

### **MTR 3200 - Climate Change and Ecosystems**

**Credits:** 3

**Prerequisite(s):** MTH 1210 and ENV 1200 or MTR 1400 or MTR 1600 or GEG 1100 or GEL 1150 or Approval of Instructor

**Description:**

In this course, students examine the current climate, ecosystems, and environmental change in a specific, currently impacted location. Students explore the interconnections of earth systems that make up ecosystems, as well as how climate change can affect these environments and participate in a field trip to the ecosystem in climate flux (e.g., Alaska, Glacier National Park, temperate rainforests of Oregon, etc.) to observe glacial recession and impacts on temperate rainforests. Students in this course are required to attend a 1-2 week field trip and must pay for all costs associated with the trip.

### **MTR 3330 - Climatology**

**Credits:** 3

**Prerequisite(s):** MTR 1400 or GEG 1100, and completion of quantitative literacy

**Description:** Climatology examines the characteristics, distribution, and causes of global and regional climate. Physical and dynamic mechanisms of climate are emphasized. The course also explores the spatial and temporal distributions of the main climate elements. Climate change topics include paleoclimatology, observed shifts in climate, climate model projections, and potential impacts of global warming.

*Note: Credit will be granted for only one prefix*

**Cross Listed Course(s):** GEG 3330

### **MTR 3340 - Climate Change Science**

**Credits:** 3

**Prerequisite(s):** MTR 1600 or GEG 1100 or ENV 1200 or GEL 1010 or GEL 1150 or MTR 1400

**Description:** This course examines the physical mechanisms of climate change through an integrative earth systems science lens. These processes explain many of the observed changes within the atmosphere, hydrosphere, cryosphere, biosphere, and lithosphere of the planet. Aspects of dynamic climate change include movement of energy through the Earth system, atmospheric and oceanic circulation, and hydrologic and carbon cycles. This understanding is applied to interpreting climate model projections, with keen attention to climate sensitivity, time scales of changes, and sources of uncertainty in climate prediction. An understanding of the physical processes driving climate models facilitates an examination of climate change impacts on natural and societal systems.

**Cross Listed Course(s):** ENV 3340

### **MTR 3400 - Synoptic Meteorology**

**Credits:** 3

**Prerequisite(s):** MTR 2020

**Description:** This course presents a descriptive approach to the structure and behavior of mid-latitude, synoptic-scale weather systems. Primary topics include the physics of synoptic-scale air motion, the role of synoptic weather systems in the general circulation, jet streams, airmasses, fronts, and the application of these to cyclones and anticyclones. Elementary quasi-geostrophic theory and weather forecasting are introduced.

### **MTR 3410 - Weather Analysis Techniques**

**Credits:** 3

**Prerequisite(s):** MTR 3400

**Description:** This is a course in interpretation, understanding, and analysis of weather data, focusing on conventional surface and upper-air data and use of these data in current weather diagnostics. Topics include traditional hand analysis of surface and upper-air weather maps, spatial and temporal cross-sections, thermodynamic diagrams, meso-analyses, and prognostic charts. These topics form the foundation for correct and efficient use of modern computer analysis. This is an essential course for operational and applied research meteorologists.

### **MTR 3420 - Radar and Satellite Meteorology**

**Credits:** 3

**Prerequisite(s):** MTR 2020 or MTR 2400 and MTH 1110

**Description:** This course provides a physics-based study of the uses of radar and satellites and their application to various meteorological problems. Basic theories of radar and satellites will be applied to the interpretation and analysis of various radar and satellite products. The lab component focuses on the interpretation of radar and satellite imagery using computer display software.

### **MTR 3430 - Atmospheric Thermodynamics**

**Credits:** 3

**Prerequisite(s):** MTH 1410, PHY 2010 or PHY 2311, MTR 2020

**Description:** This course covers classical thermodynamics and its application to atmospheric processes. Main topics include the equation of state, first and second laws of thermodynamics, adiabatic processes of dry and moist air, stability, thermodynamic diagrams, thermodynamic variables, and convection.

#### **MTR 3440 - Physical Meteorology**

**Credits:** 3

**Prerequisite(s):** MTH 2410, PHY 2311, PHY 2321, and MTR 2020 or MTR 2400

**Description:** This course is an application of classical physics to common processes in the atmosphere. Main topics include cloud and precipitation physics, atmospheric radiation, radiative transfer, lightning, optical phenomena and weather modification.

#### **MTR 3450 - Dynamic Meteorology**

**Credits:** 3

**Prerequisite(s):** PHY 2311, MTH 2410, MTR 2020

**Description:** This course covers the fundamentals of fluid dynamics necessary for understanding large-scale atmospheric motions. The focus of the course is the development, derivation, and analysis of the laws of conservation of mass, momentum, and energy, as they apply to middle latitude, synoptic scale weather systems.

#### **MTR 3500 - Hazardous Weather**

**Credits:** 3

**Prerequisite(s):** MTR 1400 or MTR 2400 or AES 1400; and completion of General Studies requirements in Written Communication

**Description:** This course considers the nature and causes of hazardous weather, the predictability of hazardous weather events, and the economic and societal impacts of these events. The strategies for the protection of life and property from hazardous weather are also considered.

#### **MTR 3710 - Meteorology Internship**

**Credits:** 1-6

**Prerequisite(s):** Registration with the Applied Learning Center Internship Program.

**Description:** This course provides an on-the-job internship experience with a meteorology-related company or agency. The experience must be done under qualified supervision and the auspices of an Earth and Atmospheric Sciences faculty member.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course may be repeated for up to 12 credits; the first enrollment must be a minimum of 3 credits.*

#### **MTR 3777 - Field Observations of Severe Weather**

**Credits:** 3

**Prerequisite(s):** MTR 2410 and MTR 3410

**Description:** This field-based course is intended to combine classroom theories with actual field observations. Students are required to meet for an one-hour course on safety and expectations before the start of the class. The course will concentrate severe weather field observations across Central and High-Plains. Overnight stay will be necessary due to the ever-changing nature of weather patterns. Additional course fee is required. Students are responsible to pay for the outside incidentals, such as food and drinks.

#### **MTR 3920 - Directed Study in Meteorology**

**Credits:** 1-5

**Prerequisite(s):** Permission of Instructor

**Description:** This course provides an opportunity for upper-division students with a strong background in meteorology to pursue study in a specific topic of interest and value. The course requires permission of the instructor and chair of the Earth and Atmospheric Sciences Department and frequent meetings between student and instructor.

#### **MTR 4210 - Forecasting Laboratory**

**Credits:** 1

**Prerequisite(s):** MTR 3410

**Description:** This is a laboratory course in which the principles of synoptic meteorology and weather computer technology are used in developing a weather forecast. Students are introduced to computerized weather data access, display, and analysis using meteorological software applications. Students learn to use surface and upper-air data, satellite and radar imagery, numerical model output, and other weather data in the preparation of weather forecasts. Principles of weather briefing and forecast decision making are also introduced.

#### **MTR 4400 - Advanced Synoptic Meteorology**

**Credits:** 4

**Prerequisite(s):** MTR 2410, MTR 3410, MTR 3450

**Description:** This course is a calculus-based examination of the three-dimensional structure of mid-latitude, synoptic scale weather systems. Main topics include quasi-geostrophic theory, extratropical cyclone structure and evolution, diagnosis of vertical motions, jet streams, and frontogenesis. The lab component involves the hand analysis and computer-based analysis of live, forecasted, and archived weather data.

#### **MTR 4410 - Numerical Weather Prediction**

**Credits:** 3

**Prerequisite(s):** MTR 3450, MTH 3420, and MTH 1510 or an equivalent course in an approved programming Language

**Description:** This course presents the theoretical background to numerically modeling the atmosphere using the primitive equations. Current numerical models will be analyzed and finite-difference

techniques will be applied to a simple computer model of the atmosphere developed during the course.

### **MTR 4500 - Mesometeorology**

**Credits:** 3

**Prerequisite(s):** MTR 3410 and MTH 1410

**Description:** This is an advanced course in recognizing, understanding, and forecasting mesoscale weather events (severe thunderstorms, hailstorms, tornadoes, downslope windstorms, flash floods, snowstorms, etc.) with emphasis on theory, analysis of weather data, and forecast decision making.

### **MTR 4600 - Meteorology Research Seminar**

**Credits:** 3

**Prerequisite(s):** Senior Standing and 12 credits in upper division meteorology completed

**Description:** This is a capstone course required of all meteorology majors. Students engage in a research project that involves the application of scientific methodology to meteorological or climatological data and problem solving. Students learn to do literature searches, create a problem statement, handle data, perform statistical analysis, and present data and results. Technical writing and oral presentation skills are emphasized.

**University Requirement(s):** Senior Experience

## **Military Science (Army ROTC)**

### **MILR 1011 - Adventures in Leadership I**

**Credits:** 2

**Description:** MILR 1011 introduces students to the personal challenges and competencies that are critical for effective leadership and communication. Students will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. Students will be introduced to the structure of the ROTC Basic Course program. The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

### **MILR 1021 - Adventures in Leadership II**

**Credits:** 2

**Prerequisite(s):** MILR 1011 or permission of instructor

**Description:** MILR 1021 teaches leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Students will explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises. As students become further acquainted with MILR 1021, they will learn the structure of the ROTC Basic Course program. The key objective this semester is to explore (in more detail) the Army's leadership philosophy and learn fundamental military concepts. Emphasis on Army leadership will provide the learner a better

understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

### **MILR 2031 - Methods of Leadership and Management I**

**Credits:** 3

**Prerequisite(s):** MILR 1021 or permission of instructor

**Description:** MILR 2031 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced planning, executing and assessing team exercises. While participation in the leadership labs is not mandatory during the MSL II year, significant experience can be gained in a multitude of areas and participation in the labs is highly encouraged. The focus continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide a tangible context for learning the Soldier's Creed and Warrior Ethos.

### **MILR 2041 - Methods of Leadership and Management II**

**Credits:** 3

**Prerequisite(s):** MILR 2031 or permission of instructor

**Description:** MILR 2041 examines the challenges of leading teams in the complex operational environment. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MILR 2041 prepares Cadets for MILR 3051. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. Case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

### **MILR 3052 - Military Operations and Training I**

**Credits:** 3

**Prerequisite(s):** MILR 2041 or permission of instructor. Students must be contracted cadets in the Army ROTC to be enrolled in MILR 3052.

**Description:** In MILR 3052 the student will study, practice, and apply the fundamentals of Army leadership, Officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. At the conclusion of this course, the student will be capable of planning, coordinating, navigating, motivating and leading a team or squad in the execution of a tactical mission during a classroom PE, a Leadership Lab, or during a Situational Training Exercise (STX) in a field environment. Successful completion of this course will help prepare the student for success at the ROTC Leader Development and Assessment Course (LDAC) which the student will attend during the summer. The student will receive systematic and specific feedback on their leader attributes values and core leader competencies from their instructor, other ROTC cadre and MSL IV Cadets who will evaluate skills using the ROTC Leader Development Program (LDP) model.

## **MILR 3062 - Military Operations and Training II**

**Credits:** 3

**Prerequisite(s):** MILR 3052, or permission of instructor. Students must be contracted in the Army ROTC to be enrolled in MILR 3062.

**Description:** In MILR 3062, the student will study theoretical and practical applications of small unit leadership principles. The student will focus on managing personnel and resources, conducting the military decision making process, the operations order, and oral communications. The student will be exposed to tactical unit leadership in a variety of environments with a focus on preparation for the summer leader development and assessment course experience.

## **MILR 3090 - Military Theory and Tactical Leadership**

**Credits:** 1

**Prerequisite(s):** MILR 1021 and permission of instructor

**Description:** Students in this course will apply military domain knowledge, engage in small unit leadership skills, and receive instruction on various subjects germane to military operations. Students will examine military tactics, techniques and procedures to better understand how to successfully accomplish multiple military requirements.

## **MILR 4072 - Adaptive Leadership**

**Credits:** 3

**Prerequisite(s):** MILR 3062 or permission of instructor. Students must be contracted in the Army ROTC to be enrolled in MILR 4072.

**Description:** MILR 4072 transitions the focus of student learning from being trained, mentored and evaluated as an MSL III Cadet to learning how to train, mentor and evaluate underclassmen Cadets. MSL IV Cadets learn the duties and responsibilities of an Army staff officer and apply the Military Decision Making Process, Army Writing Style, and the Army's Training Management and METL Development processes during weekly Training Meetings to plan, execute and assess battalion training events. Cadets examine management and leadership concepts and techniques associated with planning and executing military training and operations at Company and higher echelons. Cadets learn to safely conduct training by understanding and employing the Composite Risk Management Process. Cadets learn how to use the Comprehensive Soldier Fitness (CSF) program to reduce and manage stress.

## **MILR 4082 - Leadership in a Complex World**

**Credits:** 3

**Prerequisite(s):** MILR 4072 or permission of instructor. Students must be contracted cadets in the Army ROTC to be enrolled in MILR 4082.

**Description:** In MILR 4082, Cadets explore the dynamics of leading in the complex situations of current military operations in full spectrum operations (FSO). Cadets will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. Cadets will also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support. The course places

significant emphasis on preparing cadets for BOLC B, and officers' first unit of assignment. It uses case studies, scenarios, and exercises to prepare cadets to face the complex ethical and practical demands of leading as a commissioned officer in the United States Army.

## **Modern Languages**

### **ASL 1010 - American Sign Language I**

**Credits:** 3

**Description:** This course provides students with a basic understanding of American Sign Language including conversational skills and linguistic structures. Students are also introduced to Deaf culture.

*Note: Credit will only be granted for one prefix: ASL or SLHS*

**Cross Listed Course(s):** SLHS 1610

### **ASL 1020 - American Sign Language II**

**Credits:** 3

**Prerequisite(s):** ASL 1010 or SLHS 1610 or permission of instructor

**Description:** This course is a continuation of ASL 1010 emphasizing expressive language as well as increasing competence with receptive language skills. The course continues to build vocabulary and familiarity with the complex grammar (morphology and syntax) of this visual language. The deaf experience and culture is integrated throughout.

*Note: Credit will be granted for only one prefix: ASL or SLHS.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** SLHS 1620

### **MDL 1300 - Languages for the Professionals: Variable Topics**

**Credits:** 2

**Description:** This course affords the students a practical knowledge of a foreign language (Spanish, German, French, etc.) in order to facilitate communication and to provide understanding in a specific professional field.

*Note: May be repeated for credit as the course title changes.*

### **MDL 1700 - Foreign Languages for Travelers**

**Credits:** 2

**Description:** This course presents the basics necessary when traveling in a foreign country. It gives the traveler a minimal command of the basic phrases, salutations, weather, numbers, time, statements of need and desire.

*Note: May be repeated for credit as the course title changes.*

### **MDL 2400 - Fundamentals of Translation and Interpreting**

**Credits:** 3

**Prerequisite(s):** ASL 1020 or CHI 1020 or GER 1020 or FRE 1020 or ITA 1020 or JPS 1020 or SPA 1020 or permission of instructor

**Description:** This course introduces new and advanced language learners alike to the professional fields of Translation and Interpreting within the broader language services industry. Basic

concepts from the area of Translation Studies are introduced in a format that aligns with a culturally oriented approach in translation. Examples are drawn from a variety of source languages, including French, German, Italian, Korean, Russian, and Spanish among others. The analyzed texts represent a broad spectrum, and include excerpts from sacred scriptures, world literature, policy documents, marketing materials, lifestyle publications, and the translations of Harry Potter. The course is taught in English.

### **MDL 3050 - Cultural Crossroads: France, Germany, Spain**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic- and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations.

*Note: Students can get credit for only one prefix.*

**Cross Listed Course(s):** FRE 3050, GER 3050, HON 3050, SPA 3050

### **MDL 3800 - Mexico: History, Life, and Culture**

**Credits:** 3

**Prerequisite(s):** One year of Spanish or Permission of instructor

**Description:** This course is part of a study-abroad program and provides an interdisciplinary understanding of Mexican civilization. It specifically deals with a social and historical approach to Mexican society and examines the traditions and institutions that shape the Mexican way of life.

*Note: Credit will be granted for only one prefix: MDL or CHS.*

**Cross Listed Course(s):** CHS 3801

### **MDL 3980 - Internship in Modern Languages**

**Credits:** 1-15

**Prerequisite(s):** Major within the Modern Languages Department; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **MDL 4960 - Teaching Foreign Languages in K-12**

**Credits:** 3

**Prerequisite(s):** EDS 3120 and nine hours of intermediate and advanced courses in one foreign language; or permission of instructor

**Description:** This course will develop competencies for teaching modern foreign languages. Course content will include methods and materials of standards-based instruction, classroom and instructional management, assessment strategies, designing lessons using multiple intelligences and differentiated instruction, using technology in instruction, and integration of other content areas in teaching foreign language. Students are required to complete a minimum of 10 hours of observation in a variety of foreign-language classrooms.

### **MDL 4961 - Field Experience in Teaching Foreign Languages in K-12**

**Credits:** 1

**Corequisite(s):** MDL 4960

**Prerequisite(s) or Corequisite(s):** EDS 3140 and EDS 3240

**Description:** This field-based course provides opportunities to develop teacher candidates' professional and pedagogical skills in a foreign language classroom. In coordination with the classroom teacher, teacher candidates will design and implement content lessons and use content literacy strategies to improve both language acquisition and literacy skills. Field placement in schools will be arranged by MSU Denver faculty in collaboration with partner schools. This field experience should follow the completion of EDS 3140 and EDS 3240. It is NOT intended as a beginning field experience.

## **Music**

### **MUS 0020 - Recital Attendance**

**Credits:** 0

**Description:** Students must attend a total of twelve performances, including eight to ten Monday afternoon recitals and two to four evening performances, selected from a list of approved performances provided at the beginning of each semester. Students must enroll during each semester of individual instruction and must receive a "Satisfactory" grade in order to progress to the next private lesson level.

### **MUS 161A - Class Voice I**

**Credits:** 1

**Prerequisite(s):** MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see department) or Permission of instructor

**Description:** This course offers class instruction in voice to students with little or no previous training.

### **MUS 161B - Class Piano I**

**Credits:** 1

**Prerequisite(s):** MUS 1010, or a passing score on the Music Theory I placement exam (see department), or permission of instructor

**Description:** This course offers class instruction in piano to students of any major with little or no previous experience.

### **MUS 161K - Class Guitar I**

**Credits:** 1

**Prerequisite(s):** MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see department) or Permission of instructor

**Description:** This course offers class instruction in guitar to students with little or no previous training.

### **MUS 162A - Class Voice II**

**Credits:** 1

**Prerequisite(s):** MUS 161A or MUS 1140 or permission of instructor

**Description:** This course is a continuation of MUS 161A: Class Voice I. This class offers instruction in vocal technique and coaching of various vocal styles to students with little or no previous training.

### **MUS 162B - Class Piano II**

**Credits:** 1

**Prerequisite(s):** MUS 161B or permission of instructor upon the class piano placement exam assessment

**Description:** This course offers class instruction in piano to students of any major with no or little previous training. This course is a continuation of MUS 161B.

### **MUS 162K - Class Guitar II**

**Credits:** 1

**Prerequisite(s):** MUS 161K or Permission of instructor

**Description:** This course is a continuation of MUS 161K.

### **MUS 171A - Private Voice I**

**Credits:** 2

### **MUS 172A - Private Voice II**

**Credits:** 2

### **MUS 261B - Class Piano III**

**Credits:** 1

**Prerequisite(s):** MUS 162B or permission of instructor upon the class piano placement exam assessment

**Description:** This course is a continuation of MUS 162B and designed to help students develop further keyboard skills.

### **MUS 261C - Advanced Keyboard Skills I**

**Credits:** 1

**Prerequisite(s):** MUS 1130 and MUS 1140

**Prerequisite(s) or Corequisite(s):** MUS 271B or MUS 273B or

permission of instructor

**Description:** This course explores necessary keyboard skills including technical exercises, harmonization, sight reading, score reading, and improvisation. This core course replaces Class Piano I for students whose primary instrument is piano or organ.

### **MUS 262B - Class Piano IV**

**Credits:** 1

**Prerequisite(s):** MUS 261B or permission of instructor

**Description:** This course is a continuation of 261B and designed to help students develop further keyboard skills and pass keyboard proficiency exam.

### **MUS 262C - Advanced Keyboard Skills II**

**Credits:** 1

**Prerequisite(s):** MUS 261C

**Description:** This course builds on the skills attained in MUS 261C, more deeply exploring advanced keyboard skills for piano majors, including technical exercises, harmonization, sight reading, score reading, and improvisation. This core course replaces Class Piano II for students whose primary instrument is piano or organ.

### **MUS 1000 - Introduction to Music**

**Credits:** 3

**Description:** In this course, students investigate the function, structure, style and genre classifications, and aesthetic interpretations of a diverse variety of musical traditions. The students develop and employ a vocabulary for musical description and listen to many different traditions of musical expression. This course is intended for non-music majors.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** HON 1000

### **MUS 1010 - Essential Music Theory Skills**

**Credits:** 2

**Description:** This course covers the techniques of music reading, analysis, and hearing skills by teaching the fundamental principles of meter, rhythm, pitch scales, key signatures, intervals, triads, seventh chords and the keyboard. The application of traditional sight-reading and ear-training techniques are emphasized. This course is designed to prepare music majors, musical theatre majors, and music minors for MUS 1110.

### **MUS 1011 - Fundamentals of Music Theory Lab I**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** MUS 1010 or permission of instructor

**Description:** This course develops music reading, writing, and hearing skills through the application of traditional sight-reading and ear-training techniques. This course is designed for music majors

who lack the necessary experience for placement into MUS 1120.  
*Note: No previous training or experience in music is required.*

### **MUS 1030 - Composing and Understanding Music for Non-Majors**

**Credits:** 3

**Description:** This course covers the techniques of reading, writing, and composing music by teaching the fundamental principles of music notation and musical logic as they pertain to meter, rhythm, pitch, scales, key signatures, intervals, triads, and the keyboard. Students use basic music software to write and compose musical ideas. No previous training or experience in music is required.

### **MUS 1050 - History of Rock and Roll**

**Credits:** 3

**Description:** In this course, students survey the origins and history of Rock and Roll. In addition to examining the songs and influence of significant artists, students explore how the issues of race, politics, gender, and the forces of capitalism have shaped this tradition and subsequently popular culture in America.

**General Studies:** Art and Humanities

**Guaranteed Transfer:** GT-AH1

### **MUS 1071 - Non-major Private Instruction**

**Credits:** 1

**Prerequisite(s):** Permission of Instructor

**Description:** This course covers individual private instruction for students of any major with previous music experience to continue to learn performance skills and techniques.

*Note: This course may be repeated for credit.*

### **MUS 1110 - Music Theory I**

**Credits:** 3

**Prerequisite(s):** MUS 1010 or a passing score on the Music Theory Placement Exam (see department)

**Corequisite(s):** MUS 1120 and MUS 161B

**Description:** This course is the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition, and the development of reading and hearing skills as they relate to these elements. It covers the elements of diatonic music commonly found in classical, jazz, and popular music styles, including Roman numeral and lead sheet analysis, and phrase structure and grouping. Aural and visual recognition of materials is emphasized.

### **MUS 1120 - Music Theory Lab I**

**Credits:** 1

**Prerequisite(s):** MUS 1010 or a passing score on the Music Theory Placement Exam (see department)

**Corequisite(s):** MUS 1110 and MUS 161B

**Description:** Students apply reading and hearing skills to the melodic, harmonic, rhythmic, textural, and formal elements of music

through singing, counting, and the use of the piano keyboard. This course covers diatonic music based on the triad.

### **MUS 1130 - Music Theory II**

**Credits:** 3

**Prerequisite(s):** MUS 1110, MUS 1120, MUS 161B

**Corequisite(s):** MUS 1140, MUS 162B

**Description:** This course is a continuation of MUS 1110. This course is the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition, and the development of reading and hearing skills as they relate to these elements. It covers the elements of diatonic music commonly found in classical, jazz, and popular music styles, including Roman numeral and lead sheet analysis, seventh chords, non-chord tones, voice-leading, and an introduction to tonicization. Aural and visual recognition, as well as practical application of materials, is emphasized.

### **MUS 1140 - Music Theory Lab II**

**Credits:** 1

**Prerequisite(s):** MUS 1110, MUS 1120, MUS 161B

**Corequisite(s):** MUS 1130, MUS 162B

**Description:** This course is a continuation of MUS 1120, and covers diatonic material based on triads and seventh chords, and introduces chromaticism.

### **MUS 1310 - Acting in Opera**

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** MUS 171A (Applied Voice - any Level)

**Description:** This course offers a technical foundation in acting for the emerging opera singer. The singing actor is presented with unique challenges to expressive performance such as taking inspiration for the energy and tempo of stage movement from what one hears in the musical score, and learning to master facial and body gesture in a way which is powerfully communicative and at the same time not prohibitive to the process of healthy singing. In addition to acquiring tools to meet these challenges, students learn how to effectively research and develop operatic characters.

*Note: This course may be repeated for credit.*

### **MUS 1650 - Basic Music Technology**

**Credits:** 1

**Prerequisite(s):** MUS 1010 or permission of instructor

**Description:** This course provides music majors with technology skills necessary for contemporary musical practice. The course introduces students to music notation software, digital audio workstations, MIDI synthesizers, basic audio recording and production, basic video recording and production, and website design.

### **MUS 1710 - Private Instruction I**

**Credits:** 2

**Prerequisite(s):** Performance of a successful private instruction audition; and successful completion of MUS 1010 or the Music Theory I Placement Exam (see department)

**Corequisite(s):** MUS 0020; at least one other music course; and the major ensemble in the private instruction area being studied

**Description:** This course covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different area of study.

*Note: Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 1720 - Private Instruction II**

**Credits:** 2

**Prerequisite(s):** MUS 1710

**Corequisite(s):** At least one other music course and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 1710, and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performance and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study.*

### **MUS 1858 - Pre-Production**

**Credits:** 1

**Description:** This course is a forum to work in instrumental specialist groups (i.e. guitar, bass, drums, vocals) to dissect, analyze, and learn the particular technical aspects of the Live Performance Workshop song for any given week. Students may be asked to create charts for songs, learn passages by ear, and demonstrate a range of techniques and skills to perform a particular song with musical authenticity and accuracy.

*Note: This course may be repeated for up to two semesters.*

### **MUS 1862 - Foundations of Songwriting I**

**Credits:** 2

**Description:** This course introduces students to fundamental methods, techniques, and practices of the songwriting craft. While a large portion of the course focuses on analyzing the elements (form, subject, harmony, melody, etc.) of classic and contemporary songs and songwriters, the primary goal of the course is to encourage students to develop their own original material, both lyrics and music. Students write material in a range of different styles to the specifications of numerous prompts.

### **MUS 1864 - Foundations of Songwriting II**

**Credits:** 2

**Prerequisite(s):** MUS 1862

**Description:** Building on the previous semester of this course sequence (MUS 1862), this course further explores the basic methods, techniques, and practices of the songwriting craft. Students continue to explore the composition of melody, harmony, and form, while refining their abilities to construct meaningful and relevant lyrical content with object writing and storytelling. Students analyze and critique pre-existing music, examining the elements that make a song memorable and engaging to better their own original writing.

### **MUS 1866 - Lyric Writing**

**Credits:** 2

**Corequisite(s):** MUS 1862

**Description:** This course introduces students to a range of basic lyric writing techniques, methodologies, and practices. Students learn to take inspiration from a range of stimuli and structure songs in coherent and productive ways. While focusing on developing a student's unique voice, students analyze successful lyricists of the past to draw out their styles, conventions, and methods. Students build a workbook of original lyrics, starting with raw material and ending with several finished songs. Throughout the course, students critically reflect on their lyric writing, creating self-awareness of their own style and voice.

### **MUS 1880 - Repertoire and Hit Song Analysis**

**Credits:** 2

**Description:** This course serves as a basic introduction to A&R (artist and repertoire) practice, focusing on the question: what makes a song a hit? In exploring this question, students learn to identify musical attributes of hit songs from popular 20<sup>th</sup> century music; students gain a basic understanding of the music business infrastructure that contributed to the success of various songs and artists. The course examines a number of record labels, including, most notably, their A&R departments, to investigate how these labels chose, produced, and marketed their catalogs of hit songs. Students also analyze numerous classic and contemporary hit songs in relation to their basic sonic qualities, promotional campaigns and label support, as well as their social and historical contexts.

### **MUS 1890 - Domestic Music Market**

**Credits:** 3

**Description:** This course provides students with an introductory overview of the American music industry. Students demonstrate how the multiple components of, and stakeholders in, the music business all work together to create income streams for artists and industry professionals. Students study the business strategies of classic and contemporary artists to reveal how these musicians have navigated an increasingly complex and dynamic industry.

**Cross Listed Course(s):** Domestic Music Market

### **MUS 1892 - Artist Discovery and Development**

**Credits:** 3

**Prerequisite(s):** MUS 1880

**Description:** Building on Repertoire and Hit Song Analysis, this course provides a further exploration of artist and repertoire practice as students learn to find new acts, assess their commercial potential, and develop their talents into viable business plans. While surveying the history and development of artist and repertoire, students learn how to approach unsigned acts and identify workable marketing angles for them; the course will also cover how to develop artists, build their fan base, and present them to a label for acquisition. Students develop skills in targeted research, quality control, leadership, presentation/communication, and management.

### **MUS 1910 - Techniques and Improvisation I**

**Credits:** 3

**Description:** This course provides students the opportunity to build a solid foundation of facility on their chosen instrument through a logical progression of exercises and application. Students are challenged to experiment with basic techniques to begin to develop a creative approach to improvisation. Students situate technical vocabulary and improvisational skills within a variety of musical contexts across numerous genres. Students develop a comprehensive method for practicing productively, keeping track of their own progress as they critically reflect on it. Group lectures are enhanced with masterclasses and opportunities for one-on-one tutorial sessions.  
*Note: This course may be taken once per instrument area.*

### **MUS 1920 - Techniques and Improvisation II**

**Credits:** 3

**Prerequisite(s):** MUS 1910

**Description:** This course builds directly on the previous semester's iteration of this course, providing students an opportunity to further develop a solid foundation of facility on their chosen instrument through a logical progression of exercises and application. Students continue to experiment with basic techniques to further develop a creative approach to improvisation. The class situates technical vocabulary and improvisational skills within a variety of musical contexts across numerous genres. Along the way, students continue to develop a comprehensive method for practicing productively, keeping track of their own progress as they critically reflect on it. Group lectures will be enhanced with masterclasses and opportunities for one-on-one tutorial sessions.

*Note: This course may be taken one semester per instrument area.*

### **MUS 2040 - An Integrated Approach to Art and Music**

**Credits:** 3

**Prerequisite(s):** 24 undergraduate credit hours, including ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021, or Permission of instructor

**Description:** This course enables students to develop awareness and knowledge of the major periods, styles, and landmark works in worldwide visual arts and music. Philosophical and aesthetic foundations of art, music, and the creative process will be explored to enhance this study. Basic elements of music and art will be identified and applied to the study of masterworks. The concepts presented in this integrated approach will be applied to develop artistic sensibility.

*Note: Credit will be granted for only one prefix: MUS or ARTH.*

**Cross Listed Course(s):** ARTH 2100

### **MUS 2110 - Music Theory III**

**Credits:** 3

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 162B

**Corequisite(s):** MUS 2120

**Description:** This course is the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition, and the development of reading and hearing skills as they relate to these elements. It covers the elements of music commonly found in classical, jazz, and popular music styles, modulation, chromatic harmony, extended chords, and an exploration of form. Aural and visual recognition, and practical application of materials is emphasized. This course is the continuation of MUS 1130.

### **MUS 2120 - Music Theory Lab III**

**Credits:** 1

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 162B

**Corequisite(s):** MUS 2110

**Description:** In this course, students receive training in sight-singing, rhythmic coordination, and aural recognition of melodic and harmonic elements, as well as practical theoretical skills applied to the keyboard, including figured bass and lead-sheet realization. Both diatonic and chromatic elements are explored. This course is a continuation of MUS 1140.

### **MUS 2130 - Music Theory IV**

**Credits:** 3

**Prerequisite(s):** MUS 2110, MUS 2120

**Corequisite(s):** MUS 2140

**Description:** This course includes the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition and the development of reading and aural skills as they relate to these elements. It covers music from the post-Romantic era to the present, and the elements of music commonly found in classical, jazz, and popular music styles during this time period. Emphasis is on the techniques used in Impressionism, jazz, and the modern schools of 20th and 21st century composition. This course is a continuation of MUS 2110.

### **MUS 2140 - Music Theory Lab IV**

**Credits:** 1

**Prerequisite(s):** MUS 2110, MUS 2120

**Corequisite(s):** MUS 2130

**Description:** In this course, students receive training in sight-singing, rhythmic coordination, and aural recognition of melodic and harmonic elements, as well as practical theoretical skills applied to the keyboard, including figured bass and lead-sheet realization. Both diatonic and chromatic elements are explored with increased emphasis on highly chromatic melodic and harmonic elements, and increased rhythmic and metric complexity. This course is a continuation of MUS 2120.

### **MUS 2150 - Jazz Theory**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** MUS 2130 and MUS 2140

**Description:** Jazz theory explores music theory through the jazz idiom. Concepts learned in previous theory classes are reinterpreted with jazz-specific vocabulary. In addition, the course investigates theory concepts unique to jazz, such as recognition and comprehension of chord symbols, harmonic and melodic analysis, re-harmonization techniques, harmonic considerations in transcribed improvisations, and jazz arranging. This course presents ideas in chronological order and relates concepts with historic development of harmony, melody, and rhythm through the different jazz styles and eras.

### **MUS 2340 - Foundations of Music Education**

**Credits:** 2

**Prerequisite(s) or Corequisite(s):** MUS 2110

**Description:** This course is designed to acquaint the student with social and intellectual foundations of music education in historical and contemporary frameworks. Students become familiar with philosophical and psychological principles of aesthetic education, curriculum design and implementation, teaching music in diverse contexts, legal and financial structures which affect teaching, and professional development resources. Students examine the role of education and music education in society and develop a personal philosophy for teaching music.

### **MUS 2400 - Vocal Diction I**

**Credits:** 2

**Prerequisite(s):** MUS 172A

**Description:** This course is in an in-depth study of accurate articulation and pronunciation for singing in English, Italian, Spanish, and Latin.

### **MUS 2410 - Basic Vocal Diction**

**Credits:** 1

**Description:** This course covers the use of the International Phonetic Alphabet and the pronunciation for singing in English and other commonly sung languages.

### **MUS 2450 - Jazz Improvisation I**

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** MUS 1130 and MUS 1140

**Description:** This course introduces students to basic skills to spontaneously create melodies in time within a harmonic context. The class focuses on developing a timbral, melodic, and rhythmic vocabulary that enhances the principles of successful group improvisation interaction.

### **MUS 2451 - Jazz Improvisation II**

**Credits:** 1

**Prerequisite(s):** MUS 2450

**Description:** This course presents students with the more advanced skills needed to improvise in a jazz context. With the timbral,

melodic, and rhythmic vocabulary learned and used in the previous course, students continue to build on the skills that allow for the performance of spontaneously created melodies.

### **MUS 2630 - Jazz Piano**

**Credits:** 1

**Prerequisite(s):** MUS 162B

**Description:** This course, a continuation of MUS 162B, Class Piano II, is an introduction to piano proficiency for jazz majors. This class explores various aspects of jazz piano performance and musicianship, including swing feel and syncopation, piano technique, performance of chord progressions, interpretation of chord symbols, voicings, accompaniment patterns, and improvisation.

### **MUS 2650 - Music Technology for Educators**

**Credits:** 1

**Prerequisite(s):** MUS 1110 or Permission of instructor

**Description:** This course is intended for music education majors. The focus is on learning skills necessary for a career in music education: music notation software for the creation of musical scores and parts, sequencing software for composing and transcribing, and the use of databases and spreadsheets to manage the varied activities of a music teacher.

### **MUS 2660 - Electronic Music Composition**

**Credits:** 1

**Prerequisite(s):** MUS 1110; MUS 1650; or permission of instructor

**Description:** This course is a survey of the concepts, technology, and skills required for creating and realizing electronic music in a variety of compositional formats and media environments. In addition, notation software will be thoroughly explored, particularly as it relates to the notation of complex modern composition.

### **MUS 2710 - Private Instruction III**

**Credits:** 2

**Prerequisite(s):** MUS 1720

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied  
**Description:** This course is a continuation of MUS 1720, and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different area of study.

*Note: Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 2720 - Private Instruction IV**

**Credits:** 2

**Prerequisite(s):** MUS 2710

**Corequisite(s):** MUS 0020, at least one other music course, and the

major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 2710, and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 2730 - Performance III**

**Credits:** 3

**Prerequisite(s):** MUS 1720, MUS 1110, MUS 1120 and a successful performance concentration audition

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 1720 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 2740 - Performance IV**

**Credits:** 3

**Prerequisite(s):** MUS 2730 and a successful performance concentration audition

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 2730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform with one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 2840 - Session Styles I**

**Credits:** 2

**Prerequisite(s):** MUS 1010, MUS 1110, MUS 1120

**Corequisite(s):** MUS 2850

**Description:** This course requires students to perform a diverse range of contemporary and iconic musical styles in the popular idiom to high standards. Students are required to listen to and analyze a range of recordings to assess their stylistic sonic qualities and nuances. Instructors provide historical and cultural context for each style as well as performance training and guidance in critical listening skills.

Students are required to read and interpret song charts as well as play by ear while performing in various styles/genres. Group sessions are discipline-specific, and are supported by one-on-one tutorials and master classes.

### **MUS 2842 - Session Styles II**

**Credits:** 2

**Prerequisite(s):** MUS 1010, MUS 1110, MUS 1120, MUS 2840

**Description:** Building on the skills and knowledge gained in MUS 2840: Sessions Styles I, this course focuses on the more advanced skills necessary to be a successful working musician in studio and live sessions. Particular emphasis will be placed on reading and interpreting song charts in a diverse range of contemporary and iconic musical styles in the popular idiom. Students listen to and analyze a more complex range of recordings to assess their stylistic sonic qualities. Instructors provide historical and cultural context for each style as well as further performance training and guidance in developing more nuanced critical listening skills. Group sessions are discipline-specific, and are supported by one-on-one tutorials and master classes.

### **MUS 2850 - Artist Inquiry I**

**Credits:** 3

**Prerequisite(s):** MUS 1010

**Description:** In this course, students study and learn to perform the particular techniques, styles, repertoire, and sounds of artists within the proper historical, cultural, and social contexts. This course outlines a basic chronological history of American popular music with an emphasis on rock 'n' roll (broadly conceived).

*Note: This course may be taken once per instrument area.*

### **MUS 2852 - Artist Inquiry II**

**Credits:** 3

**Prerequisite(s):** MUS 2850

**Description:** This course is the second course in a sequence. This course allows students to continue to study and perform the particular techniques, styles, repertoire, and sounds of artists within their proper historical, cultural, and social contexts. This course continues to outline a basic chronological history of American popular music with an emphasis on rock 'n' roll (broadly conceived).

### **MUS 2860 - Notation and Chart Writing**

**Credits:** 3

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 1864

**Description:** In this course, students gain experience with the ability to communicate their ideas more effectively through written notation, using a variety of methods and techniques for producing scores, lead sheets, and charts. The course examines a range of pre-existing charts and scores from studio sessions and live tours for students to become more familiar with standard industry practices, and determining the ways that work best for their own compositions. Enhancing their musical literacy and aural skills, students transcribe songs from multiple genres, notating their various instrumental parts and vocals in a number of formats, including conventional Western notation,

drum charts, rhythm and slash notation, and the Nashville Number System.

### **MUS 2862 - Song Arrangement I**

**Credits:** 2

**Prerequisite(s):** MUS1130, MUS1140, MUS1864, MUS 2860

**Description:** This course focuses on transforming original raw song material into fully formed ensemble arrangements. Students are introduced to basic concepts in orchestration for the modern pop and rock ensemble: learning the fundamental attributes, functions, and ranges of the guitar, bass, drums, vocals, and piano in order to understand how to create viable arrangements for these instruments that work in multiple idioms. Students deconstruct the rhythm sections and vocals of existing songs to understand how and why they work as a unit. Students create re-arrangements and remixes of existing songs, but also work on ensemble arrangements of original material.

### **MUS 2864 - Song Arrangement II**

**Credits:** 2

**Prerequisite(s):** MUS 2862

**Description:** Building on the first semester in this sequence (MUS 2862), this course continues to focus on transforming original raw song material into fully formed arrangements for contemporary ensembles. Students learn more advanced concepts in orchestration, including extended techniques and exploiting the sonic possibilities for guitar, bass, drums, vocals, and piano to create innovative arrangements of existing and original material. Students continue to deconstruct the rhythm sections and vocals of existing songs to understand how and why they work as a unit. Students explore the inclusion of strings, brass, and woodwinds into popular music, as well as other instruments common to pop arrangements, such as mandolin, organ, and synthesizer.

### **MUS 2865 - Advanced Lyric Writing**

**Credits:** 2

**Prerequisite(s):** MUS 1866

**Description:** Building on the previous course in this sequence, this course explores advanced techniques, methods, and practices for creating subject matter and lyrics. While refining previously learned methods, students are introduced to more advanced ways of conceptualizing lyric writing. Students critically examine and deconstruct a range of pre-existing lyrics from songwriters across a wide spectrum of genres and styles. Students refine their own artistic practices to create original lyrical content as well as reflect on their own creative process.

### **MUS 2866 - Writing for Artists**

**Credits:** 3

**Prerequisite(s):** MUS 1864, MUS 1866, MUS 2860

**Description:** This course explores writing original material for existing established artists in numerous contemporary genres, including solo and group arrangements. Students develop a familiarity with the contemporary trends in multiple idioms to write

for artists across a range of styles to specific prompts. Students also explore ways for young songwriters to promote and disseminate their own compositions to get noticed by industry-established acts. Students directly apply notation skills learned in Notation and Chart Writing.

### **MUS 2880 - Self-Employment Skills in Music**

**Credits:** 3

**Description:** This course focuses on how to assess and exploit a variety self-employment opportunities available within the contemporary music industry. Students learn the fundamentals of starting and managing their own music-related business as well as how to manage their personal finances as they relate to self-employment. Recognizing the volatility of the music industry, students learn how to navigate times of abundance and scarcity.

### **MUS 2882 - Establishing an Artist**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** MUS1880, MUS1882, MUS1890, MUS1892

**Description:** Building on the artist and repertoire skills developed previously, in this course students focus on how to break (i.e., establish) new artists into the mainstream music industry. By examining a range of case studies, students learn to expose an artist to multiple audiences and broaden their reach to various markets. This class explores marketing strategies, networking, short and long term planning, problem solving, leadership, and other skills necessary to establish an artist in the contemporary music market.

### **MUS 2886 - Music Industry Income Streams**

**Credits:** 2

**Prerequisite(s):** MUS 1880, MUS 1890, MUS 1892

**Description:** This course focuses on understanding the various ways in which artists earn income from the perspective of an artist manager. This includes a survey of a multitude of income streams to create a diverse approach to creating, and advising on, revenue opportunities for artists. Students learn about long-term and short-term financial planning, cost-benefit analysis, budget forecasting, and cash flow management. Students develop a basic financial literacy as it relates to the music business, honing their ability to communicate with accountants, agents, banks, and third-party investors.

### **MUS 2888 - International Music Market**

**Credits:** 3

**Prerequisite(s):** MUS 1890

**Description:** Building on the MUS 1890: Domestic Music Market, this course offers an overview of how principles learned in that class apply overseas. Students learn how to break and establish artists outside of the US market, including an introduction to, and analysis of, the primary stakeholders in the global music industry. This class explores the key similarities and differences between the US and non-US markets, including cultural dynamics, legal structures, distribution channels, performance opportunities, and marketing strategies. Students also examine historical and current trends in

various overseas markets and discuss how artists stay relevant over time.

### **MUS 2890 - Home Recording**

**Credits:** 3

**Prerequisite(s):** MUS 1000; MUS 1120; ENG 1020

**Description:** This course covers the fundamentals of multi-track recording techniques, mixing, and mastering, enabling students to produce their own home recordings to a professional standard. Students learn to record a range of instruments and ensembles using numerous types of hardware and software.

### **MUS 2910 - Intermediate Techniques and Improvisation I**

**Credits:** 3

**Prerequisite(s):** MUS 1920

**Description:** Building upon Techniques and Improv I and II, this course provides students the opportunity to further develop technical facility on their chosen instrument along with a deeper understanding of improvisatory skills. This involves a logical progression of intermediate level exercises and application. Students are challenged to experiment with intermediate level techniques to further develop a creative approach to improvisation. The course situates intermediate technical vocabulary and improvisational skills within a variety of musical contexts across numerous genres.

*Note: This course may be taken once per instrument area.*

### **MUS 2920 - Intermediate Techniques and Improvisation II**

**Credits:** 3

**Prerequisite(s):** MUS 2910

**Description:** This course builds directly on MUS 2910: Intermediate Techniques and Improv I, providing students an opportunity to further develop technical facility on their chosen instrument while advancing their improvisational abilities. This involves a logical progression of advanced-intermediate exercises and applications. Students experiment with an advanced-intermediate level of techniques to further develop a creative approach to improvisation. The class situates technical vocabulary and improvisational skills within a variety of challenging musical contexts across numerous genres at an advanced-intermediate level.

### **MUS 2940 - Group Performance Instruction I**

**Credits:** 2

**Prerequisite(s):** MUS 1110, MUS 1120

**Description:** This class offers group instruction on an instrument to students with little or no previous training.

*Note: This course may be taken once per instrument area.*

### **MUS 2950 - Group Performance Instruction II**

**Credits:** 2

**Prerequisite(s):** MUS 2940

**Description:** This is a continuation of MUS 2940: Group Performance I offering group instruction on a specific instrument.

*Note: This course may be taken once per instrument area.*

### **MUS 3000 - Musics of America**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course explores American music and its unique blend of African, Indigenous, Hispanic, Asian, and European colonial musical styles and genres. Students develop an understanding of the musical style, aesthetic viewpoints, and function of the folk, religious, classical, popular, and commercial musics of these groups. The course materials also consider the interaction of these musical styles and genres within the context of sociocultural dynamics of the United States. The students encounter a broad variety of musical expressions and study those expressions within the context of culture.

**General Studies:** Arts and Humanities

**University Requirement(s):** Multicultural

### **MUS 3015 - Global Pop**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This survey of global pop explores musical thought and processes through an examination of the development of "world music" and "world beat" in the 20th and 21st century, including its meaning and importance to contemporary culture as well as its history and impact. The class addresses the complex relationships of music and mass media while addressing themes of nationalism, popular resistance and subversion, censorship, transnational identity, gender representation, and cultural hegemony in popular music.

**General Studies:** Arts and Humanities, Global Diversity

### **MUS 3020 - History of Jazz**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** In this class, students explore the many facets of American jazz as a history of African American musical expression. Through a survey of important events and major figures, including their effect on music through their actions and those of their followers, students learn the tools of active listening by gaining a greater understanding of the musical elements through listening, reading, and performing. The course covers minstrelsy, ragtime, blues, New Orleans and classic jazz, bebop and related movements, as well as current trends of the genre. This course centralizes the perspective that jazz is inexorably tied to the experience of African American musicians, who simultaneously were influenced by and responded to the dominant culture of popular music in the creation of something new.

**General Studies:** Arts and Humanities

**University Requirement(s):** Multicultural

### **MUS 3030 - Traditional American Improvised Styles**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010, MUS 1000; or permission of instructor

**Description:** This course examines the music and musicians that contribute to the development of improvisation in American folk music outside of the tradition of Jazz. This course surveys the

phenomenon of "Americana," music which is derived from the various forms of American roots music, comprised of the wide variety of cultural practices found in the United States. The blues, bluegrass, Appalachian music, and other culturally varied forms of American improvised music are covered.

### **MUS 3050 - Musics of the World**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ENG 1021

**Description:** This course explores the diverse forms of musical expression found within cultures from around the world. In addition to surveying a variety of musical practices, aesthetic systems, and functions of music, the fundamental theoretical approaches of ethnomusicology are introduced and employed. Through an exploration of case studies selected from diverse music cultures, the course focuses on topics such as identity, race, ethnicity, gender, class, religion, memory, migration, globalization, tourism, social, and political movements.

**General Studies:** Arts and Humanities, Global Diversity

### **MUS 3060 - Art and Music for Elementary Teachers**

**Credits:** 3

**Prerequisite(s):** ENG 1020 and at least junior standing; or permission of instructor

**Description:** This course enables students to develop awareness and knowledge of philosophical and aesthetic foundations of the arts with a specific focus on art and music. Appropriate methods of teaching art and music in the elementary curriculum, including the integration of literacy and mathematics, will be explored. Students will use creative and critical thinking skills to develop artistic sensibility.

*Note: Credit will be granted for only one prefix: ARTH or MUS.*

**Cross Listed Course(s):** ARTH 3060

### **MUS 3099 - The Beatles: Music and Culture**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course explores the music and cultural phenomenon of the Beatles. Their music is contextualized within the history of popular music and the social and political climate of post-WW II Britain and the United States.

**General Studies:** Arts and Humanities

### **MUS 3100 - Counterpoint**

**Credits:** 3

**Prerequisite(s):** MUS 2110 and MUS 2120

**Description:** This course involves study of modal vocal polyphony (Lassus, Palestrina) of the sixteenth century, and tonal contrapuntal textures of the 18th century (J.S. Bach) and contrapuntal techniques of the 20th century (Hindemith). Students will compose in two to four independent voices. All contrapuntal techniques are studied in historical perspective, including analysis of polyphonic forms.

### **MUS 3150 - Arranging and Orchestration**

**Credits:** 2

**Prerequisite(s):** MUS 2110; MUS 2120; MUS 3460; and MUS 3410 or MUS 3430 or MUS 3450

**Description:** Students will study the technical capabilities and notation of all the instruments and voices, individually and in ensembles, and score written music for small instrumental and/or vocal ensembles and for orchestra.

### **MUS 3160 - Jazz Composition and Arranging**

**Credits:** 1

**Prerequisite(s):** MUS 2150, MUS 3020

**Description:** This course gives students the skills needed to arrange for jazz combo and big band. Techniques studied include those employed by composer/arrangers such as Charlie Parker, Dizzy Gillespie, Miles Davis, Fletcher Henderson, Duke Ellington, Count Basie, Billy Strayhorn, Bill Evans, Charles Mingus, Sun Ra, Toshiko Akiyoshi, Thad Jones, and Maria Schneider. The students create their own arrangement for jazz combo and big band that is played in class.

### **MUS 3170 - Arranging for Educators**

**Credits:** 1

**Prerequisite(s):** MUS 2110 and MUS 2120

**Description:** This course provides the prospective music educator with the skills needed to create functional performance material for the instrumentation at their disposal, as well as introducing rudimentary orchestration and arranging skills.

### **MUS 3200 - Topics in Music History and Literature: Variable Topics**

**Credits:** 3

**Prerequisite(s):** MUS 3220 or Permission of instructor

**Description:** This course is designed to study the history and literature of a single musical style, era, medium, or composer.

*Note: This course may be repeated for credit under different topics.*

### **MUS 3210 - Western Music History I**

**Credits:** 3

**Prerequisite(s):** MUS 2110 and at least junior standing

**Description:** This course is intended for music majors. It comprises a comprehensive survey of Western music history and musical style through the examination of recordings and musical scores. This course traces the origins of Western music in Ancient Greek civilization, and explores the development of polyphony and rhythmic notation in the Middle Ages. An exploration of musical developments and ideas in the fifteenth and sixteenth centuries of the Renaissance follows, and the course concludes with study of the musical Baroque era, spanning roughly 1600 to 1750.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**Cross Listed Course(s):** HON 3211

### **MUS 3220 - Western Music History II**

**Credits:** 3

**Prerequisite(s):** MUS 3210 and MUS 2130

**Description:** This course is intended for music majors. It comprises a comprehensive survey of Western music history and musical style through the examination of musical scores and primary and secondary source readings. This course traces the musical developments of the Classical era in the late eighteenth century, followed by a study of the development of musical style and aesthetics in the Romantic era of the nineteenth century. The course finishes with an overview of the radical musical developments of the twentieth century and considers new musical trends at the beginning of the twenty-first century.

*Note: Credit will be granted for only one prefix: HON or MUS.*

**Cross Listed Course(s):** HON 3221

### **MUS 3240 - Songwriting**

**Credits:** 3

**Description:** This course introduces the basic aesthetic and communicative concepts of songwriting with regard to tradition and to contemporary trends and enables students to articulate a conscious method appropriate to their own aesthetic approaches to songwriting in the context of traditional songwriting. Students compose original songs with various features (lyrics, melody, harmony, etc.) and document them so that each song may be communicated and performed in various different genres, styles, and situations.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ENG 3570

### **MUS 3250 - Basic Vocal Pedagogy and Diction**

**Credits:** 2

**Description:** This course covers use of the International Phonetic Alphabet and associated sounds for singing in English and other commonly sung languages as well as physiology of the human vocal instrument and practical instruction for vocal production.

*Note: Students cannot earn credit for both MUS 3250 and MUS 2410 or MUS 3490.*

### **MUS 3260 - Professional and Career Development for the 21st Century Musician**

**Credits:** 3

**Prerequisite(s):** MUS 1720

**Description:** This course offers a foundation upon which students can develop the musical careers they seek and provides firsthand experience with a few of the basic tools all modern musicians need to succeed, including: resume and cover letter writing, interviewing, networking, personal finance management, negotiating contracts, establishing a strong work ethic, developing marketing strategies, and identifying market niches they can fill. Students practice and apply skills through course activities, both in-classroom and online, providing a bridge to their professional career.

### **MUS 3350 - Teaching General Music**

**Credits:** 2

**Prerequisite(s):** MUS 2340

**Corequisite(s):** MUS 3351, CLD 3510

**Description:** Students develop competencies for teaching general

music in both elementary and secondary school music settings. Course content includes experience with traditional elementary methodologies, application of technology to music, and non-ensemble based musical opportunities. Additional instruction includes classroom management, assessment strategies, and the role of general music in education.

### **MUS 3351 - Supervised Field Experience in General Music**

**Credits:** 1

**Prerequisite(s):** MUS 2340 and formal admission to the music education program

**Corequisite(s):** MUS 3350, CLD 3510

**Description:** The student works with elementary general music teachers in area schools in a 55-hour supervised field experience. The course is designed to integrate concepts developed in MUS 3350 with practice in classroom environments.

*Note: This course must be taken concurrently with MUS 3350 and CLD 3510.*

*At the end of the semester, the student must successfully pass the final course assessment with the music education faculty in order to pass the course and continue in the music education program.*

*Further information about the process may be found in the Department of Music Student Handbook.*

### **MUS 3360 - Instruments in General Music**

**Credits:** 1

**Description:** Students develop practical skills in playing instruments typically used in the P-12 general music class. These instruments include, but are not limited to barred percussion instruments, non-pitched percussion, drums, recorder, guitar, and ukulele.

### **MUS 3390 - The Inclusive Music Classroom**

**Credits:** 2

**Prerequisite(s):** MUS 2340 or permission of instructor

**Description:** This course provides a survey of various exceptionalities of K-12 students, ranging from mild to severe, with a focus on meeting the needs of these students in the music classroom. Information about child abuse and medical conditions, and their possible effects on student learning and behavior, is addressed. Teacher-candidates are introduced to special education processes with music content that facilitates the learning process of students with special needs, including strategies and curriculum adaptations for inclusion in music and art classrooms.

### **MUS 3400 - Vocal Diction II**

**Credits:** 2

**Prerequisite(s):** MUS 2400

**Description:** This course is an advanced study of proper diction in classical vocal performance. Students will study the characteristic nuances of German and French vowel and consonant pronunciation in speech and singing, and demonstrate these skills in class performances and presentations.

### **MUS 3410 - String Techniques and Pedagogy**

**Credits:** 1

**Description:** The course offers practical instruction in the technique of playing and teaching string instruments as well as the organization of string programs in the public schools.

#### **MUS 3420 - Guitar Techniques and Pedagogy**

**Credits:** 1

**Description:** This course covers practical instruction in playing guitar with an emphasis on acquainting students with techniques and materials necessary for teaching guitar.

#### **MUS 3430 - Woodwind Techniques and Pedagogy**

**Credits:** 1

**Description:** This course covers practical instruction in playing woodwind instruments with an emphasis on acquainting students with techniques and materials necessary in teaching woodwinds.

#### **MUS 3450 - Brass Techniques and Pedagogy**

**Credits:** 1

**Description:** This course covers practical beginning instruction in playing brass instruments with an emphasis on acquainting students with techniques and materials necessary for teaching brass instruments.

#### **MUS 3460 - Percussion Techniques and Pedagogy**

**Credits:** 1

**Description:** This course covers practical beginning instruction in playing percussion instruments with an emphasis on acquainting students with techniques and materials necessary for teaching percussion instruments.

#### **MUS 3470 - Wind and Percussion Pedagogy for Choral Educators**

**Credits:** 1

**Prerequisite(s):** Course restricted to students pursuing a BME degree in the Vocal Concentration only

**Description:** This course cannot substitute for any techniques courses required for other degrees. This course covers practical instruction in playing of woodwind, brass, and percussion instruments, with an emphasis on acquainting students with techniques and materials necessary for teaching these instruments.

#### **MUS 3490 - Elements of Vocal Pedagogy**

**Credits:** 1

**Prerequisite(s):** MUS 162A

**Description:** This course covers practical instruction in vocal production, including the physiology of the human voice (anatomy of the larynx, respiration, resonance, and articulation), young voices and how to teach them, and methods and philosophy of teaching voice.

#### **MUS 3510 - Basic Conducting**

**Credits:** 2

**Prerequisite(s):** MUS 2130 and MUS 2140

**Description:** This is a basic course in the fundamentals of conducting. The fundamental skills of conducting will be presented and practiced.

#### **MUS 3520 - Choral Conducting**

**Credits:** 2

**Prerequisite(s):** MUS 3510 and MUS 262B

**Description:** This course is designed to provide an advanced study of choral conducting, including physical gesture, score study, rehearsal techniques, and conducting in performance. Emphasis will be placed on the craft of conducting, though students will be exposed to core instrumental literature through practical engagement.

#### **MUS 3530 - Instrumental Conducting**

**Credits:** 2

**Prerequisite(s):** MUS 3510 and MUS 262B

**Description:** This course is designed to provide an advanced study of instrumental conducting, including physical gesture, score study, rehearsal techniques, and conducting in performance. Emphasis will be placed on the craft of conducting, though students will be exposed to core instrumental literature through practical engagement.

#### **MUS 3540 - Advanced Conducting**

**Credits:** 2

**Prerequisite(s):** MUS 3510 and MUS 262B

**Description:** This course is designed to provide an advanced study of conducting, including the physical gesture, score study, rehearsal techniques, and conducting in performances. Emphasis will be placed on the craft of conducting, though students will be exposed to core instrumental and choral literature through practical engagement.

#### **MUS 3640 - Improvisation**

**Credits:** 1

**Prerequisite(s):** MUS 2130; and MUS 2720 or MUS 2740

**Description:** This course examines and practices the art of improvisation in music. Melodic, rhythmic, and harmonic aspects as well as components of individual style and the nature of expression in music are studied through solo and group improvisation. Additionally, students study the aesthetic value of improvising, and how improvising can be used to enrich the performance of all styles of music.

#### **MUS 3650 - Basic Techniques of Composition**

**Credits:** 2

**Prerequisite(s) or Corequisite(s):** MUS 2110, MUS 2120

**Description:** This course involves the study of the craft of musical composition, from practical, theoretical, and aesthetic points of view, through the discussion and performance of individual writing

projects.

*Note: This course may be repeated for credit.*

### **MUS 3660 - Scoring for Film and Television**

**Credits:** 3

**Prerequisite(s):** MUS 3150 or MUS 3170

**Description:** Students in this course develop an understanding of the art, history, business, and technique of composing for film, television, and digital media (i.e., video games). Students encounter examples of established, genre-specific styles, and compose (and record) genre-specific music queues that are frame accurate and synchronized to provided film and video segments.

### **MUS 3710 - Private Instruction V**

**Credits:** 2

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 2720

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 2720 and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different area of study.

*Note: Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 3711 - Private Instruction V (Composition)**

**Credits:** 2

**Prerequisite(s):** MUS 2110, MUS 2120, MUS 2720, and formal admission to the composition program

**Corequisite(s):** MUS 0020, at least one other music course, and the ensemble designated by the composition faculty.

**Description:** This course covers individual instruction in composition and is only for students majoring in music composition. It includes required weekly attendance at a one-hour performance class in which students perform for one another. At the end of the semester, the student must successfully pass a review by a faculty jury committee in order to pass the course. Students must also enroll in MUS 0020 (Recital Attendance).

### **MUS 3720 - Private Instruction VI**

**Credits:** 2

**Prerequisite(s):** MUS 3710

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 3710 and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must

successfully perform before a faculty jury committee in order to pass the course. A thirty minute junior recital may be substituted for the jury requirement for MUS 3720.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 3730 - Performance V**

**Credits:** 3

**Prerequisite(s):** MUS 2110, MUS 2120, MUS 2740 and a successful performance concentration audition

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 2740 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 3740 - Performance VI**

**Credits:** 3

**Prerequisite(s):** MUS 3730 and a successful performance concentration audition

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 3730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. A thirty-minute junior recital may be substituted for the jury requirement for MUS 3740.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

### **MUS 3741 - Performance VI**

**Credits:** 3

**Prerequisite(s):** MUS 3711 and formal admission to the composition program

**Corequisite(s):** MUS 0020, at least one other music course, and the ensemble designated by the composition faculty.

**Description:** This course covers individual instruction in composition and is only for students majoring in music composition. It includes required weekly attendance at a one-hour performance class in which students perform for one another. At the end of the semester, the student must successfully pass a review by a faculty jury committee in order to pass the course. Students must also enroll in MUS 0020 (Recital Attendance).

### **MUS 3810 - Ensemble**

**Credits:** 1

**Description:** This course is designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. Course can be repeated for credit.

*Note: This course may be repeated for credit.*

### **MUS 3816 - Early Music Ensemble**

**Credits:** 1

**Description:** This ensemble engages musical traditions from the Middle Ages through the Baroque eras. The ensemble utilizes period instruments, and employs historically informed practices. Historical sources are used, including original notation and interpretative and improvisational practices. It is a non-auditioned ensemble and open to all students regardless of their major. All instruments and voices are welcome, though some musical experience is preferred.

*Note: This course may be repeated for credit.*

### **MUS 3817 - String Sinfonietta**

**Credits:** 1

**Description:** String Sinfonietta teaches students how to rehearse and perform in a large string ensemble setting. Students may have limited prior experience performing on a string instrument. It is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

### **MUS 3818 - Mariachi Ensemble**

**Credits:** 1

**Description:** This ensemble explores the rich musical tradition of Mariachi and other Mexican and Southwestern American music traditions through participation and performance. Students learn a repertoire of songs for performance at the end of the semester. Some musical experience is preferred. Instruments include the guitar, vihuela, violin, trumpet, guitarrón, and voice. This course may be repeated for credit, and it is open to all students and all majors.

*Note: This course may be repeated for credit.*

### **MUS 3819 - Chamber Music**

**Credits:** 1

**Description:** Chamber music provides students with the opportunity to rehearse and perform in varied chamber ensembles. Students are required to audition in order to participate, however the various chamber ensembles are open to students of any major or degree program.

*Note: This course may be repeated for credit.*

### **MUS 3820 - Chorale**

**Credits:** 1

**Description:** This is a choral music ensemble course designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. The ensemble is open to

all students regardless of major and an audition is required to participate.

*Note: This course may be repeated for credit.*

### **MUS 3821 - University Treble Choir**

**Credits:** 1

**Description:** This is a vocal music ensemble course designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. The ensemble is non-auditioned and is open to students of any major or degree program. This course may be repeated for credit. The ensemble is designed to acquaint the student with as much literature as possible, including a variety of styles, languages, and musical eras, and also instill the discipline necessary to achieve performance standards.

*Note: This course may be repeated for credit.*

### **MUS 3822 - University Basso Choir**

**Credits:** 1

**Description:** This is a vocal music ensemble course designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. The ensemble is non-auditioned and is open to students of any major or degree program. This course may be repeated for credit. The ensemble is designed to acquaint the student with as much literature as possible, including a variety of styles, languages, and musical eras, and also instill the discipline necessary to achieve performance standards.

*Note: This course may be repeated for credit.*

### **MUS 3823 - Auraria Choir**

**Credits:** 1

**Description:** This is a vocal music ensemble course designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. The ensemble is non-auditioned and is open to students of any major or degree program. This course may be repeated for credit. The ensemble is designed to acquaint the student with as much literature as possible, including a variety of styles, languages, and musical eras, and also instill the discipline necessary to achieve performance standards.

*Note: This course may be repeated for credit.*

### **MUS 3824 - Symphonic Band**

**Credits:** 1

**Description:** This course is designed to explore, study, and perform the wind and percussion, full ensemble, standard works for the developing band. The course builds individual instrumental technique in a full ensemble setting. It is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

### **MUS 3825 - Wind Ensemble**

**Credits:** 1

**Description:** This course is designed to explore, study, and perform the wind and percussion, chamber ensemble, standard works, and

new works for the medium. This course is part of a community partnership with the Colorado Wind Ensemble (CWE). As such, full professionalism is expected from participants. It is an auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

#### **MUS 3826 - Secondary Instrument Band**

**Credits:** 1

**Description:** Students in this course practice performance techniques through the exploration, improvisation, composition, rehearsal, and performance on a band instrument of which the student has only beginning experience or no previous experience.

*Note: This course may be repeated for credit.*

#### **MUS 3827 - Symphony Orchestra**

**Credits:** 1

**Description:** Symphony Orchestra provides students with the opportunity to rehearse and perform orchestral literature at the university level. Students are required to audition in order to participate; however the ensemble is open to students of any major or degree program.

*Note: This course may be repeated for credit.*

#### **MUS 3828 - Jazz Ensemble**

**Credits:** 1

**Description:** This course is a study of large ensemble music including traditional Big Band repertoire (e.g. Ellington and Basie, and Ray Charles), Latin music (e.g. Willie Colon, Angel Canales, and Celia Cruz), and Jazz-influenced American popular music (e.g. The Meters, Blood Sweat & Tears, and Earth Wind and Fire) as well as small chamber works within the Jazz Tradition. It is an auditioned ensemble.

*Note: This course may be repeated for credit.*

#### **MUS 3829 - Jazz Combo**

**Credits:** 1

**Description:** This course is a study of jazz music including the music of Charlie Parker, Art Blakey, Cannonball Adderley and others based on transcriptions of the original small group arrangements with focus on individual improvisation. It is an auditioned ensemble. Course can be repeated for credit.

*Note: This course may be repeated for credit.*

#### **MUS 3830 - Guitar Ensemble**

**Credits:** 1

**Description:** In preparation for a performance of guitar chamber music, students receive coaching and direction on all assigned material. Students develop essential ensemble playing skills such as following a conductor, giving and receiving cues, sight-reading, listening and responding musically to others, the ability to adapt to various musical situations as an ensemble player, and confidence and poise on stage. This ensemble is open to all students in any major or

degree program.

*Note: This course may be repeated for credit.*

#### **MUS 3831 - Percussion Chamber Ensemble**

**Credits:** 1

**Description:** This course is designed to explore and study percussion performance techniques through rehearsal and performance of standard ensemble literature. It is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

#### **MUS 3832 - Collaborative Piano**

**Credits:** 1

**Description:** This course is a study of collaborative piano, exploring various piano repertoires of collaborative piano in different sizes and genres over the course of Western music history. Upon voice/instrumental applied instructors' and ensemble directors' recommendations of repertoires, collaborative pieces are assigned to piano students in the beginning of the semester to allow enough time for students to learn. Students are coached during the class period on their collaborative pieces, while also required to collaborate during ensemble rehearsals/lessons. Piano performing experience is required. The final concert takes place at the end of the semester.

*Note: This course may be repeated for credit.*

#### **MUS 3833 - Opera**

**Credits:** 1

**Prerequisite(s):** MUS 172A or approval of instructor

**Description:** This course is designed to prepare students for a performance of a full-length opera or opera scenes. Students receive coaching and direction on all assigned material. In addition, students may take part in exercises which may increase their abilities to develop natural stage movements appropriate to their operatic characters. Students fill out a character profile form for each of their assigned roles. This ensemble is open to all students who successfully pass the audition.

*Note: This course may be repeated for credit.*

#### **MUS 3834 - Gamelan Ensemble**

**Credits:** 1

**Description:** The Gamelan Ensemble provides students with the opportunity to experience traditional Balinese gamelan music through participation and performance. Students are introduced to basic techniques and repertoire on a Balinese gamelan angklung. The semester culminates in an evening performance. No prior musical experience is necessary, and instruments will be provided in class. It is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

#### **MUS 3835 - African Drum and Dance Ensemble**

**Credits:** 1

**Description:** This ensemble introduces the varied and rich musical

traditions of Africa and the African diasporas through participation and performance. The course focuses on the development of a variety of drumming and dance techniques, while cultivating a program of pieces for performance at the end of the semester. No previous musical experience is required, and it is a non-auditioned ensemble and open to all students regardless of their major.

*Note: This course may be repeated for credit.*

**Cross Listed Course(s):** DANC 3835, HPS 3835

### **MUS 3836 - Pop and Soul Choir**

**Credits:** 1

**Description:** This ensemble class focuses on singing in a group setting, teaching students primarily about vocal technique, vocal health, vocal blend, harmony singing, dynamics, phrasing, and group dynamics. This class includes repertoire ranging from contemporary popular music to classic soul.

*Note: This course may be repeated for credit.*

### **MUS 3840 - Live Performance Workshop**

**Credits:** 1

**Corequisite(s):** MUS 1858

**Description:** This course prepares students to play live, on-stage with professional equipment to the highest musical standards. Using songs prepared in MUS 1858 Pre-Production, students perform in various live group sessions in which musical communication, performance ability, stage presence, and sound design are modeled by instructors who will provide feedback. This course can be repeated for credit.

### **MUS 3850 - Commercial Composition and Arranging**

**Credits:** 3

**Prerequisite(s):** MUS 1130, MUS 1140

**Description:** This course requires that students study and apply techniques, methodologies, and concepts for composing and arranging original music. Students analyze classic and contemporary songs and arrangements, including score analysis and critical listening assessments.

### **MUS 3860 - Live Songwriting Workshop**

**Credits:** 2

**Description:** Within this course, students develop original songs to a professional standard. Students work in small groups, writing several songs to specific briefs; thus, students put into practice various songwriting methodologies and lyric writing techniques. Students also analyze the work of various professional songwriters to gain a better understanding of their creative processes. Emphasis is placed on understanding the qualities of specific genres and writing to those specifications.

### **MUS 3862 - Advanced Songwriting**

**Credits:** 3

**Prerequisite(s):** MUS 1864, MUS 2865

**Description:** Building on Foundations of Songwriting, this course examines more advanced methods, techniques, and practices of the

songwriting craft. Students deconstruct a more challenging set of songs to analyze their melodic, harmonic, rhythmic, formal, and lyrical qualities. Students continue to build their theoretical knowledge of music as well as their music literacy and aural skills. Using the knowledge gained through this analysis, students are asked to produce original material that expresses their uniqueness as songwriters as they work within a number of prompts that encourage them to write in a plethora of styles and genres, as well as transcending traditional genre boundaries. Students also reflect on their songwriting practices and style.

### **MUS 3870 - Commercial Electronic Music**

**Credits:** 3

**Prerequisite(s):** MUS 1110, MUS 1120, MUS 1866, MUS 1864, MUS 161B

**Description:** This course introduces students to the basic components and processes involved in creating original music by using contemporary electronic software and hardware. Students examine and learn to use programming, loops, samples, synthesis, MIDI, various DAWs (Digital Audio Workstations) as well as various contemporary and classic hardware tools used regularly to compose electronic music. Students are required to create multiple compositions by integrating a range of electronic music tools, techniques, and methodologies.

### **MUS 3878 - Group Recital**

**Credits:** 2

**Prerequisite(s):** MUS 1110, MUS 1120, MUS 1858, MUS 3840

**Description:** Building on Live Performance Workshop (MUS 3840), this class takes a more advanced approach to live performance. While continuing to develop technical and improvisational skills on their chosen instrument, students develop their skills as Musical Directors as they form and manage their own ensembles. Students choose repertoire as they cultivate a group sound and personality. Faculty offer feedback and constructive guidance to help mold a band into a cohesive professional unit. Various faculty members are assigned to each group as mentors. Each ensemble is responsible for constructing and performing a set for an audience of their peers and instructors, receiving feedback from both.

### **MUS 3880 - The Politics of Artists and Repertoire**

**Credits:** 3

**Prerequisite(s):** MUS1880, MUS 1890, MUS1892

**Description:** Building directly on MUS 1880: Repertoire and Hit Song Analysis as well as MUS 1892: Artist Discovery and Development, the students in the course examine more advanced concepts and practices in artists and repertoire. While digging deeper into the history of artists and repertoire and record labels, students focus more acutely on the backroom negotiations and deal making that has contributed to success or failure by examining various case studies of iconic figures in this field. Students examine and compare both old and new models of artists and repertoire practice. Ultimately, students gain an understanding of how industry professionals have navigated the complex politics between the various stakeholders in the music industry. Students construct their

own personal approach to artists and repertoire by synthesizing various historical methods and techniques in this field.

### **MUS 3882 - Music Industry Contract Negotiation**

**Credits:** 3

**Prerequisite(s):** ENG 1020; COMM 1010

**Prerequisite(s) or Corequisite(s):** MUS 1890

**Description:** This course focuses on developing the skills necessary to initiate and broker various types of contracts and/or deals related to the contemporary music industry. While integrating theory and psychology into the class, students spend a large portion of the semester practicing their negotiation skills in live role-playing exercises. Through such activities, students gain the ability to draft deals/contracts with authority and complete mark-ups and final versions that balance artists' aspirations, personal goals, and legal obligations.

### **MUS 3884 - Managing an Established Act**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** MUS1880, MUS1890, MUS1892, MUS 2882, MUS 2886, MUS 3880

**Description:** This course focuses on how to sustain an artist's career over the long term. Students learn to navigate through changes in market trends to ensure that their artists remain relevant in a dynamic environment. The course covers maintaining existing audiences while attracting new ones through numerous marketing strategies. Students learn to re-brand and re-launch existing acts for new times, markets, and audiences. The course examines a range of case studies, regarding how to manage and elevate an existing act as well as re-imagine the career of an iconic artist who has fallen out of favor.

### **MUS 3885 - Artist Deal Suite**

**Credits:** 3

**Prerequisite(s):** MUS 1000; MUS 1120; MUS 1890; MUS 2888; ENG 1020; COMM 1010

**Description:** This course introduces students to a variety of contemporary music industry deals and contract types. Students identify and analyze the conventional terms and conditions within these various documents. A range of legal terms and procedures are discussed with the goal of improving students' ability to communicate with lawyers, record executives, and other major stakeholders in the music industry.

### **MUS 3886 - Live Tour Management**

**Credits:** 3

**Prerequisite(s):** MUS 1890

**Description:** This course examines the details of designing and managing a live tour at a local, national, and international scale. In the current music industry, live touring is often times the most important and lucrative component of an artist's career. Students learn how to logistically plan and budget for various sizes of venues and lengths of outings. Students hone their skills particularly in logistics organization, time management, and financial forecasting.

### **MUS 3888 - Fundamentals of Record Production**

**Credits:** 3

**Prerequisite(s):** MUS 1000; ENG 1020; MUS 1110; MUS 1890

**Description:** This class focuses on the processes of moving from a finished arrangement in the rehearsal room to a master recording. Students learn about selecting the appropriate songs, quality control, pre-production, choosing and working with a producer and engineer, goal setting, mixing, mastering, and the politics of the recording studio. Throughout the semester, students analyze and discuss the production of iconic songs and albums, exploring its effects on the entire songwriting and creative process. Partnering with local studios, students have an opportunity to gain hands-on experience in a recording studio, working with industry producers and engineers to perform, conduct, mix, and master their own compositions.

### **MUS 3890 - Pop Music and Politics**

**Credits:** 3

**Prerequisite(s):** ENG 1020; MUS 1000; COMM 1010

**Description:** Taking an interdisciplinary approach, this course examines how popular music has voiced the concerns of the masses and the marginalized to bring about social awareness and change. This seminar-style course challenges students to critically think about, and listen to, a variety of politically driven music from the U.S. and abroad. Discussions of theoretical frameworks for analyzing politics and popular music, exploring definitions and basic concepts are deployed throughout the semester. Students explore music's role in the major socio-political movements in American history as well as several cases outside of the US context. Students gain a greater appreciation for the ability of popular music to shape the social and political world.

### **MUS 3891 - Detroit Music Heritage**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; MUS 1000

**Description:** In this course, students explore the crucial role that music has played in Detroit's development, and, conversely, how the city's unique identity encouraged its particular sonic trajectory. From Motown to techno, Detroit is widely known as an important site of American musical development. Countering narratives of Detroit as a "dying" bankrupt city in perpetual decline, this course shows its vitality and tenacity through a social history of the city's rich musical heritage. Incorporating an interdisciplinary approach, this course explores a diversity of readings, listening, and films from a range of academic fields including: history, sociology, ethnomusicology, anthropology, and journalism.

### **MUS 3892 - Live Sound**

**Credits:** 3

**Prerequisite(s):** MUS 1000, MUS 1130, MUS 1140

**Description:** This course covers the fundamentals of running live sound in various stage contexts for a range of instrumentations and musical styles. Students learn how to produce front of house ("FOH") sound mixes and onstage monitor mixes. Working with professional

PA systems, mixers, microphones, and other musical equipment, students have ample opportunity to gain practical hands-on experience in this subject.

### **MUS 3895 - Hip-Hop Culture and Rap Music**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** This course seeks to examine the long-standing cultural warfare that exists among core elements of Hip-Hop culture and the impact such challenges have on gender and social identities. Students will think critically about Hip-Hop music beyond the scope of entertainment through the examination of literature, films, and music that provide interdisciplinary discourse on Hip-Hop in our society.

**Cross Listed Course(s):** AAS 3920, HIS 3920, SOC 3250

### **MUS 3910 - Advanced Techniques and Improvisation I**

**Credits:** 3

**Prerequisite(s):** MUS 2920

**Description:** Building on Intermediate Techniques and Improv I and II, this course provides students the opportunity to develop advanced technical facility and improvisational abilities on their chosen instrument. This involves a logical progression of advanced-level exercises and applications. Students are challenged to experiment with advanced level techniques to further develop a creative approach to improvisation. The class situates technical vocabulary and improvisational skills within a variety of challenging musical contexts across numerous genres.

*Note: This course may be taken once per instrument area.*

### **MUS 3920 - Advanced Techniques and Improvisation II**

**Credits:** 3

**Prerequisite(s):** MUS 3910, Advanced Techniques & Improvisation I in the same instrument area.

**Description:** This course builds directly on the previous semester's iteration, providing students an opportunity to further develop a deeper facility on their chosen instrument. This development involves a logical progression of exercises and application. Students continue to experiment with advanced level techniques to further develop a creative approach to improvisation. The course situates technical vocabulary and improvisational skills within a variety of musical contexts across numerous genres.

*Note: This course may be taken once per instrument area.*

### **MUS 3940 - Group Performance Instruction III**

**Credits:** 2

**Prerequisite(s):** MUS 1110, MUS 1120, MUS 2950

**Description:** This is a continuation of MUS 2950: Group Performance II, offering group instruction on a specific instrument.

*Note: This course may be taken once per instrument area.*

### **MUS 3950 - Group Performance Instruction IV**

**Credits:** 2

**Prerequisite(s):** MUS 1010, 1110, 1120, 3940

**Description:** This is a continuation of MUS 3940L Group Performance III, offering group instruction on a specific instrument.

*Note: This course may be taken once per instrument area.*

### **MUS 3980 - Internship in Music**

**Credits:** 1-3

**Prerequisite(s):** Major in Music; permission of the instructor

**Description:** Supervised by a faculty member in the Department of Music, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: This course may be taken for 1-3 credit hours. It may be taken for a maximum of 6 credit hours.*

### **MUS 4000 - Musics of Latin America**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard score(s) on one or more of the reading, writing, and math placement tests as appropriate.

**Description:** This course explores the diverse, vibrant musical traditions of Latin America. Particular attention will be given to the many ways in which cultural, historical and political developments throughout the Western hemisphere both inform and are informed by musical practices. Students will become familiar with some of the most influential and popular Latin musics and musicians, as well as the larger cultural context from which they emerge and continue to operate. Histories and theories of colonialism, race, urbanization/modernization, and diaspora will be applied as a means of understanding various functions and meanings the music has come to articulate. Genres to be studied range from traditional, folkloric, and religious music to contemporary popular, electronic, and film music.

**General Studies:** Arts and Humanities, Global Diversity

### **MUS 4010 - From Blues to Hip Hop: African American Musical Heritage**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course traces the history of blues, both as a specific genre and as a range of techniques and approaches that have been at the center of American music and culture, from 19th century roots up to the present. It explores the commonly accepted blues mainstream exemplified by figures like Bessie Smith, Robert Johnson, and B.B. King, and also the central role blues has played in jazz, folk, country, gospel, rock, soul, and rap. While following the evolution of the music through the 20th century, we examine how blues has served as a metaphor for African American culture as it permeates the American tradition.

**General Studies:** Arts and Humanities

**University Requirement(s):** Multicultural

### **MUS 4110 - Analysis of Music**

**Credits:** 2

**Prerequisite(s):** MUS 2130 and MUS 2140

**Description:** This course involves advanced analytical techniques applied to various music forms and styles. Traditional and modern methods of analysis are discussed.

### **MUS 4350 - Jazz Pedagogy**

**Credits:** 2

**Prerequisite(s):** MUS 2450, MUS 3030

**Description:** This course expands and transfers jazz music performance skills into applied teaching knowledge by exploring educational philosophies, objectives, and methods.

### **MUS 4360 - Teaching Secondary Music I**

**Credits:** 2

**Prerequisite(s):** MUS 2340 and formal admission into the music education program

**Corequisite(s):** MUS 4361

**Description:** Students develop introductory competencies for teaching instrumental music and technology at the elementary and secondary school levels. Course content includes experience with traditional vocal and instrumental teaching methodologies and their application to music teaching. Additional instruction includes conceptual teaching, instructional strategies, classroom management, assessment strategies, and the role of secondary music in education.

### **MUS 4361 - Supervised Field Experience in Secondary Music I**

**Credits:** 1

**Prerequisite(s):** MUS 2340

**Corequisite(s):** MUS 4360

**Description:** This course is designed to integrate concepts developed in MUS 4360 with practice in the classroom environment and must be taken concurrently with MUS 4360. Students work with secondary music teachers in area secondary schools in a fifty-five (55) hour supervised field experience.

### **MUS 4370 - Teaching Secondary Music II**

**Credits:** 2

**Prerequisite(s):** MUS 2340; MUS 4360

**Corequisite(s):** MUS 4371

**Description:** Students develop advanced competencies for teaching secondary music at the secondary school levels. Course content expands on experiences with traditional music teaching methodologies, incorporating the use of technology as a means to facilitate musical content and concepts. Additional instruction includes classroom management, assessment strategies, and the role of secondary music in education.

### **MUS 4371 - Supervised Field Experience in Secondary Music II**

**Credits:** 1

**Prerequisite(s):** MUS 2340; MUS 4361

**Corequisite(s):** MUS 4370

**Description:** This course is designed to integrate concepts developed in MUS 4370 with practice in the classroom environment and must be taken concurrently with MUS 4370. Students work with secondary music teachers in area secondary schools in a fifty-five (55) hour supervised field experience.

### **MUS 4410 - Piano Pedagogy**

**Credits:** 3

**Prerequisite(s):** MUS 271B (Private Piano III) or MUS 273B (Performance III in Piano) or Permission of Instructor

**Description:** This course is a study of the methods, literature, editions, and techniques used in teaching piano privately and in groups.

### **MUS 4420 - Vocal Pedagogy**

**Credits:** 2

**Prerequisite(s):** MUS 271A (Private Voice III) or MUS 273A (Performance III in Voice) or Permission of Instructor

**Description:** This course consists of a series of lectures, demonstrations, and discussions about physiology of the human voice (anatomy of the larynx, respiration, resonance, and articulation), young voices and how to teach them, and methods and philosophy of teaching voice.

### **MUS 4430 - Guitar Pedagogy and Literature**

**Credits:** 3

**Prerequisite(s):** MUS 271K (Private Guitar III) or MUS 273K (Performance III in Guitar) or Permission of Instructor

**Description:** This course will survey a broad variety of pedagogical methods and techniques for the classical guitar, including both recent and historical approaches. In addition, the canonical repertoire for the classical guitar will be examined.

### **MUS 4440 - Contemporary Music Education Practices**

**Credits:** 1

**Prerequisite(s):** MUS 2130

**Description:** This course enables students to develop performance skills and strategies for teaching instrumental and choral music in the areas of popular and jazz styles, as well as other electronic music practices.

### **MUS 4450 - Organ Pedagogy**

**Credits:** 3

**Prerequisite(s):** MUS 271E (Private Organ III) or MUS 273E (Organ Performance III) or permission of instructor

**Description:** This course consists of a study of pedagogical methods, techniques, repertoire and editions for teaching the organ, including current, as well as historical, techniques and literature.

### **MUS 4520 - Vocal Pedagogy and Literature**

**Credits:** 3

**Prerequisite(s):** MUS 172A (Private Voice II) or Permission of Instructor

**Description:** This course utilizes lectures, demonstrations, and discussion to provide an overview of the anatomy and function, acoustic properties and resonance, hygiene and health, instruction, and performance literature of the individual singing voice.

#### **MUS 4710 - Private Instruction VII**

**Credits:** 2

**Prerequisite(s):** MUS 3720

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 3720 and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

#### **MUS 4720 - Private Instruction VIII**

**Credits:** 2

**Prerequisite(s):** MUS 4710

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 4710 and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

#### **MUS 4730 - Performance VII (Primary Performance Area)**

**Credits:** 3

**Prerequisite(s):** MUS 3740 or MUS 4720; and a successful performance concentration audition

**Corequisite(s):** MUS 0020; MUS 4790; and the major ensemble in the private instruction

**Description:** This course is a continuation of MUS 3740 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. The repertoire for the completion of MUS 4740, Senior Recital Performance, must be determined in this course.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

#### **MUS 4731 - Performance VII (Composition)**

**Credits:** 3

**Prerequisite(s):** MUS 3741 and formal admission to the composition program

**Corequisite(s):** MUS 0020, at least one other music course, and the ensemble designated by the composition faculty.

**Description:** This course is a continuation of MUS 3711 and is only for students majoring in music composition. It includes required weekly attendance at a one-hour performance class in which students perform for one another. At the end of the semester, the student must successfully pass a review by a faculty jury committee in order to pass the course. Students must also enroll in MUS 0020 (Recital Attendance).

#### **MUS 4740 - Senior Recital Performance**

**Credits:** 3

**Prerequisite(s):** MUS 4730, completion of General Studies requirements, and senior standing. For senior experience credit, the student must also complete MUS 4800.

**Corequisite(s):** MUS 0020, at least one other music course, and the major ensemble in the private instruction area being studied

**Description:** This course is a continuation of MUS 4730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes required weekly attendance at a one-hour performance class in the area of study in which students perform for one another. During the semester, the student will perform a 50-minute Senior Recital that must be approved by the process specified on the Senior Recital Hearing Request form.

*Note: This course may be repeated for credit in a different area of study. Students must also enroll in MUS 0020 (Recital Attendance).*

**University Requirement(s):** Senior Experience

#### **MUS 4790 - Senior Recital Project**

**Credits:** 1

**Prerequisite(s):** MUS 3220

**Corequisite(s):** MUS 4730

**Description:** This course involves writing program notes for the repertoire selected for MUS 4740, Senior Recital Performance. For senior experience credit, the student must also complete MUS 4740, complete all General Studies requirements, and have senior standing.

**University Requirement(s):** Senior Experience

#### **MUS 4800 - Seminar in Music Repertoire**

**Credits:** 2

**Prerequisite(s):** Senior Standing; MUS 2130, MUS 3220, and MUS 2720 or MUS 2740

**Description:** This course is designed to broaden and deepen the student's knowledge of music literature in his or her chosen area of applied study. Individual student foci will be determined by an

instrument-specific repertoire list, concentrating on important style periods for that instrument. Students make use of musical scores, in addition to listening and reading assignments, as they prepare presentations, which will outline elements of musical style and performance practice. This course, together with MUS 4740 Senior Recital Performance, fulfills the Senior Experience requirement.

**University Requirement(s):** Senior Experience

### **MUS 4860 - Co-Writing**

**Credits:** 3

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 2866

**Description:** Songwriting is often a collaborative effort, and this course introduces students to the most effective ways to work with a team of artists to create original music and manage the business of co-creating songs (i.e., royalty splits). Throughout the semester, students examine the material and dynamics of great songwriting teams such as: Lennon/McCartney, Simon/Garfunkel, Jagger/Richards, etc., to better understand their creative processes. Students gain experience in the qualities necessary to work productively in a group, including time management, social skills, and organizational skills. In this upper level course, students are challenged to use a wide range of techniques and methodologies to co-create original music to a high professional standard. Students are asked to reflect on their processes and dynamics of artistic teamwork, and will take on multiple songwriting roles (i.e., lyricist, arranger, composer, etc.) throughout the course.

### **MUS 4862 - Writing Music for Film & TV**

**Credits:** 3

**Prerequisite(s):** MUS 1130, MUS 1140, MUS 2860, MUS 2864, MUS 2865, MUS 2866, MUS 3860

**Description:** This course examines the processes involved in writing music for film, television, and other forms of visual media. While analyzing well-known television and film composers (i.e. John Williams, Danny Elfman, Mike Post) and their music, students gain experience in writing for certain scenes, learning to establish mood, highlight plot points, and support the action on screen. Students also discuss the commercial practice of placement, synchronization, and licensing to show how the industry pairs music with film/television opportunities.

### **MUS 4880 - Record Label Operations**

**Credits:** 3

**Prerequisite(s):** MUS 1880, MUS 1890, MUS 1892, MUS 2880, MUS 2882, MUS 2886, MUS 3880, MUS 3882

**Description:** This course takes a comprehensive look at the day-to-day business operations of classic and contemporary record labels. While reviewing how to acquire (artists and repertoire) and manage a roster of artists, this course focuses on the big picture and long-term planning that is needed to sustain such a business. Students gain experience in understanding how to establish and maintain distribution channels as well as the basics of the manufacturing process. Students analyze case studies of existing labels, but also propose ideas for establishing and running their own original record label(s).

### **MUS 4882 - Music Industry Event Management**

**Credits:** 3

**Prerequisite(s):** MUS 3880, MUS 3882

**Description:** This course examines how to plan, produce, promote, and manage special events, from small club gigs and fundraisers to festival concerts and publicity tours. Students start to build the organizational and communication skills necessary to design and execute such events. This course focuses on the analysis of past events, gaining insight into the processes and best practices for event creation and management. Additionally, students work to produce and/or manage original event(s) throughout the term.

### **MUS 4884 - Music Industry Case Study Research**

**Credits:** 3

**Prerequisite(s):** MUS 4880, MUS 4882

**Description:** This class critically assesses the careers of numerous notable figures in the modern music industry. This analysis of a cross section of managers, producers, record executives, artists and repertoire gurus, and publicity giants provides an intense, intimate, and in-depth insight into the lives and work of the industry's top professionals. Students are required to undertake extensive primary and secondary research on several notable music industry figures, drawing out lessons and developing models for their own careers.

### **MUS 4888 - Music Publishing and Copyright Law**

**Credits:** 3

**Prerequisite(s):** MUS 1890

**Description:** This course examines the processes of publishing songs, including the basics of how to navigate the complexities of state, national, and international copyright law. While reviewing a history of copyright law, students examine the roles of a publisher in acquisition, marketing, and creative development. The course also covers various types of publishing deals to familiarize students with their standard terms and conditions, as they learn to protect their rights as songwriters, artists, and managers. This course explores songwriting splits and how to negotiate a fair and equitable publishing deal. Students learn how to register their songs and examine the legalities of licensing and synchronization.

### **MUS 4890 - Senior Recital Performance**

**Credits:** 3

**Prerequisite(s):** MUS 4910, MUS 4920 in the primary instrument area

**Description:** This course is the culmination of the student's degree in Commercial Music Performance. The student is responsible for individually constructing, organizing, promoting, and executing an individual recital. While they may perform with others, each musical selection must feature the student for which the degree is to be awarded. Students meet with their faculty mentor to discuss their ideas and progress toward their final performance. The individual student are required to organize rehearsals in preparation for the final performance. Students are also required to construct extensive program notes, which explain their choice of music, personnel and staging while situating each of their song selections within their

proper historical, social, and cultural context. Students must display a high level of professionalism throughout the semester as well as within the final performance. Repertoire should include a mix of original and pre-existing material, which displays a wide range of performance skills in several contemporary music genres.

### **MUS 4892 - Songwriting Portfolio**

**Credits:** 3

**Prerequisite(s):** MUS 4860, MUS 4862

**Description:** As a culmination of their studies, students compile an extensive and representative portfolio of their work to date, both recordings and written scores. Students examine and reflect on their own output as songwriters, identifying their style, strengths, weaknesses, and gaps in their resumes. Students devise and execute a plan to fill out their portfolio to establish a well-rounded and marketable collection of material, which allows them to take advantage of a wide range of opportunities in the contemporary music industry. Students are required to produce a final performance of their original songwriting work, which showcases their range of output to date.

### **MUS 4899 - Commercial Music Capstone**

**Credits:** 3

**Prerequisite(s):** MUS 4840, 4850, MUS 4860, 4862, MUS 4880, 4882

**Description:** This course is a culmination of the MSU @ DIME music degree, requiring students to integrate and apply the knowledge they have gained over the entirety of their studies. Students conduct ethnographic and library/online research in order to identify a range of potential career opportunities for themselves. Students demonstrate a comprehensive understanding of their field as they examine how these areas are relevant to their various potential career paths.

**University Requirement(s):** Senior Experience

### **MUS 4910 - Techniques Practicum**

**Credits:** 3

**Prerequisite(s):** MUS 3920

**Description:** This course is the culmination of technical development from the Techniques and Improvisation sequence. The course explores advanced technical concepts on a student's instrument in preparation for the Commercial Music Capstone Course and Senior Recital Performance. Students continue to learn professional-level techniques to further master the craft of their specific instrument, utilizing a logical progression of exercises and application. The course explores the technical vocabulary for a variety of musical concepts across numerous genres.

*Note: This course may be taken once per instrument area.*

### **MUS 4920 - Personal Expression**

**Credits:** 3

**Prerequisite(s):** MUS 3920

**Description:** This course represents the culmination of improvisation and self-expression skills learned from the Techniques and

Improvisation sequence. The course explores advanced improvisational concepts on a student's instrument in preparation for the Commercial Music Capstone Course and Senior Recital Performance. Students continue to experiment with professional-level improvisational concepts to further develop their personal style of expression on their instrument. Students apply their improvisational skills within a variety of musical contexts across numerous genres.

*Note: This course may be taken once per instrument area.*

### **MUS 4950 - Senior Project**

**Credits:** 3

**Prerequisite(s):** MUS 3220, permission of the instructor, completion of General Studies requirements, and senior standing.

**Description:** In this course, the student prepares an in-depth and focused project related to music theory, music history, music literature, music education, composition, performance practice, pedagogy, music therapy, or other music-specific topics. The project may be research-based or result in a creative body of work, but includes a research component and a written document. If the project is not research-based, other evidence of work will be included in addition to the written document, such as performance, web-based product, or other significant work approved by the instructor. The written document of the project shall be scholarly and well documented according to departmental standards. Fulfills the Senior Experience requirement for the BA in Music.

**University Requirement(s):** Senior Experience

### **MUS 4960 - Senior Composition Project**

**Credits:** 3

**Prerequisite(s):** MUS 3741, completion of General Studies requirements, and senior standing.

**Description:** This is the final composition project in which students compose, oversee public performances of their compositions, and give a public lecture on their compositional activities.

**University Requirement(s):** Senior Experience

### **MUS 4971 - Student Teaching and Seminar: Elementary (K-6)**

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements for the Bachelor of Music Education major, the teacher licensure program, and general studies courses

**Corequisite(s):** MUS 4972

**Description:** This is a supervised, full-time, eight week student teaching experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision, and assessment of learners (grades K-6). Regularly scheduled observations and five hours of seminars conducted by an appointed university supervisor are part of the student teaching requirement. Teacher-candidates must complete a teacher work sample and be rated as proficient in all Colorado Teacher Quality Standards to receive MSU Denver's recommendation for teacher licensure.

*Note: Initial sign-off on program requirements (e.g. teacher work sample/portfolio) by faculty advisor. For Senior Experience credit, the student must also complete MUS 4972.*

**University Requirement(s):** Senior Experience

## MUS 4972 - Student Teaching and Seminar: Secondary (7-12)

**Credits:** 6

**Prerequisite(s):** Successful completion of all requirements for the Bachelor of Music Education major, the teacher licensure program, and general studies courses.

**Corequisite(s):** MUS 4971

**Description:** This is a supervised, full-time, eight week student teaching experience in an accredited public or private secondary school, providing increasing responsibility for the teaching, supervision, and assessment of learners (grades 7-12). Regularly scheduled observations and five hours of seminars conducted by an appointed university supervisor are part of the student teaching requirement. Teacher-candidates must complete a teacher work sample and be rated as proficient in all Standards for Colorado Teacher Quality Standards to receive MSU Denver's recommendation for teacher licensure.

*Note: Initial sign-off on program requirements (e.g. teacher work sample/portfolio) by faculty advisor. For Senior Experience credit, the student must also complete MUS 4971.*

**University Requirement(s):** Senior Experience

## Native American Studies

### NAS 1000 - Introduction to Native American Studies

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing preassessment placement tests

**Description:** This course provides an opportunity to study the indigenous population of the United States. The primary focus of the course is on the historical, political, social, and economic relationship between Native Americans and how this culture is embedded in the American culture.

**University Requirement(s):** Multicultural

### NAS 1020 - Introduction to Social Justice and Decoloniality

**Credits:** 3

**Description:** This course introduces students to the interdisciplinary fields of Social Justice and Decolonial Studies through interdisciplinary perspectives, methods, and approaches. Students learn about privilege, power, and oppression and their relationships to race, class, gender, sexuality, and other identities. This course asks complex and difficult questions regarding colonialism, decoloniality, sovereignty, and agency. It offers students opportunities to study social movements, and engage in social justice and decolonial praxis.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** AAS 1020, CHS 1020, GWS 1020

### NAS 2240 - Introduction to Native American Literature

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021 or NAS 1000

**Description:** Students study the oral and written literatures of Native Americans in their historical, political and social context. This course

is suitable for non-English majors.

*Note: Credit will be granted for only one prefix: ENG or NAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ENG 2240

### NAS 2700 - Geographies of Environmental Justice

**Credits:** 3

**Description:** This class explores why people of color and lower income populations are subject to the disproportionate burden of pollution and contamination and analyzes collective struggles of affected people to democratize access to a clean environment. Environmental justice is at the intersection of social justice and environmentalism and helps us to better understand geographies of socio-environmental injustices and how people take actions to make the places where they live, work, and play safer. Students learn how issues such as air pollution, waste management, unsafe drinking water, working conditions on farms, food deserts, climate change, and other environmental hazards affect people living in low income communities across the United States.

*Note: Credit will be granted for only one prefix, GEG or NAS.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS2

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** GEG 2700

### NAS 3090 - Current Topics in Native American Studies

**Credits:** 3

**Prerequisite(s):** NAS 1000 or permission of instructor

**Description:** The course will provide an in-depth study of an important topic in Native American Studies.

*Note: This course may be repeated for credit under different topics.*

### NAS 3110 - Federal Indian Law

**Credits:** 3

**Prerequisite(s):** NAS 1000

**Description:** This course addresses the legal and political relationship between the United States and American Indians. Students will study the major doctrines in Federal Indian Law, including the doctrines of Discover, Trust, Sovereignty, and Plenary Power with provide the legal/political basis for the U.S. and American Indian relationship. The course also provides a critical examination of current topics such as the continued political control exercised by the U.S. Government over Native American Nations and the meaning of Sovereignty in the context of U.S. and Native Nations.

*Note: Credit will be granted for only one prefix: NAS or PSC.*

**Cross Listed Course(s):** PSC 3110

### NAS 3200 - Native American Politics

**Credits:** 3

**Prerequisite(s):** NAS 1000 or PSC 1020 or Permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** The focus of this course is to examine Native

Americans as political beings. Important questions and strategies for understanding the rise and expansion of native politicization will be identified. In general, the students will be able to explain why, how and when movements that demand change emerge. By comparing and contrasting the Native American experience with other powerless groups in society, the students should be able to trace these historical and political factors that led to a change in the movement of insurgency and analyze the specific actions by insurgents that inevitably resulted in the failure or success of those specific actions.

*Note: Credit will be granted for only one prefix: NAS or PSC.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** PSC 3200

### **NAS 3240 - American Indian Women**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or NAS 1001 Recommended

**Description:** This course is designed to expose the student to the diverse and varied works of American Indian women. By studying the literature, music, and dance of the American Indian woman, students explore the historical factors that have impacted the lives of both American Indians and non-native people. This course also examines the transition that American Indian women have made in order to survive and attempt to understand their struggles for freedom.

*Note: Credit will be granted for only one prefix: NAS or GWS.*

**Cross Listed Course(s):** GWS 3240

### **NAS 3242 - Contemporary Native American Literature**

**Credits:** 3

**Prerequisite(s):** ENG 1020 and ENG 2000 or ENG 2100 or NAS 1000

**Description:** Students read, analyze, and write about various forms of literature produced by and about the Native American experience with consideration of historical and social contexts. Course content includes important contemporary Native American writers in a variety of cultures, critical readings on indigenous history and pertinent theory, and explore how historical contingencies and political debates inform literature, as well as how literature and culture can inform and challenge public and political opinion.

*Note: Note: Credit will be granted for only one prefix: ENG or NAS.*

**Cross Listed Course(s):** ENG 3242

### **NAS 3300 - Indigenous Geographies of North America**

**Credits:** 3

**Prerequisite(s):** GEG 1300 or NAS 1000 or PSC 1010 or junior or higher standing

**Description:** In this course, we examine Indigenous Peoples' relationships to land and power in North America with a focus on the United States. Colonial legacies of dispossession, genocide, and the reservation system frame how we discuss and interpret physical and symbolic violence against Indigenous Peoples. We begin with a historical geographic exploration of Indigenous land use patterns and how European arrival and invasion radically destabilized Native cultures. U.S. government policies and actions including the establishment of reservations and Tribal governments illustrate how institutions shape contemporary political, economic, social, cultural,

and environmental relationships. Contemporary issues such as natural resource extraction, economic development, intersectionality, and cultural resilience influence the experiences of Native Americans on and off reservations.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** GEG 3300, PSC 3300

### **NAS 3301 - Multiculturalism and American Art**

**Credits:** 3

**Prerequisite(s):** Satisfaction of oral and written communication requirements; ARTH 1500 or ARTH 1600 or ARTH 1700

**Description:** This course studies the work produced by artists of African American, Asian American, Latino/a American, and Native American ancestry and their contribution to art in the United States during the 20<sup>th</sup> and 21<sup>st</sup> centuries. Students will be introduced to the artistic legacies of Africa, Asia, and the Americas and how they intersected with European and New World contexts to provide a dynamic and rich multicultural creative discourse. American artists whose creative activity reflects their varied and complex cultural heritages will be the focus, and students will analyze how bias and discrimination in the art world and culture at large have impacted the artists' reception. In addition, students will discover how artists have contributed to modern and contemporary social, cultural, and aesthetic debates.

*Note: Credit will be granted for only one prefix: ARTH or NAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ARTH 3300

### **NAS 3722 - Native American Cinema**

**Credits:** 3

**Prerequisite(s):** NAS 1000

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** Students examine films in several contexts, including the use of film by the dominant society as a means of creating a national identity, socializing Indians, and reinforcing power relationships in the political arena; the use of films by Native American filmmakers as an affirmation of identity and a mechanism for presenting an indigenous view of history, culture and political relationships with the dominant society. Students examine a range of genres, narrative and non-narrative films, live-action films, documentaries, experimental film, and animation. Students examine a broad range of topics, including film form (mise-en-scène, cinematography, editing, and sound); the use of film as a modern storytelling medium and as a mechanism for bridging cultural divides; and film theory. The course also examines the historical, cultural, economic, and theoretical aspects of each film/cinematic area.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ENG 3722

### **Nursing, Accelerated**

**NURA 3020 - Foundations of Professional Nursing Practice**

**Credits:** 6

**Prerequisite(s):** Admission to ANO

**Description:** This course introduces the student to the profession of nursing and the culture of the health care environment. The core knowledge, core competencies and the role of development of the professional nurse are explored. Students begin to develop an understanding of human responses to health and illness within the nurse client relationship. Students begin to apply the nursing process, critical thinking, and clinical reasoning, with an emphasis on communication. Practice environments for the development of basic nursing skills include the facilitated simulation laboratory and a health care facility.

### **NURA 3150 - Introduction to Gerontology Nursing**

**Credits:** 3

**Prerequisite(s):** Admission to the ANO or BRNCO and successful completion of all prior courses in the established sequence

**Description:** This course emphasizes understanding the impact of individual and societal perceptions of aging and the aging process. Students examine cultural, legal, and environmental factors, and the diverse health status found in the older adult. Communication skills are developed as an essential feature of the care of the older adult in a variety of settings. The core knowledge concepts and role development of the professional nurse in caring for older adults are explored.

### **NURA 3400 - Evidence Based Practice Through Nursing Research**

**Credits:** 3

**Prerequisite(s):** NURA 3020, NURA 3150, NURA 3700, NURA 3410

**Description:** This course introduces the student to the Evidence-Based Practice (EBP) research process. The knowledge and competence needed to critique published research are explored. Students learn how to use research in support of their EBP. Course content aligns with the Magnet/Pathway to Excellence concepts including Empirical Outcomes, Exemplary Professional Practice, New Knowledge, Innovations, and Improvements, and QSEN Competencies of EBP and Patient-Centered Care. Ethical and legal considerations are also discussed. Qualitative and quantitative research processes are examined. Students complete a literature search using appropriate databases on a researchable problem and communicate findings. Emphasis is placed on the improvement of nursing practice through reading, using, and participating in research.

### **NURA 3410 - Clinical Pharmacology**

**Credits:** 4

**Prerequisite(s):** Admission to the ANO; and successful completion of all prior courses in the established sequence

**Description:** Clinical pharmacology covers the major principles of pharmacology, drug classifications, and pharmacotherapy. The nursing process, legal, ethical, cultural, and social values are also discussed in relationship to various disease processes and complex patient situations. Drug calculations are also covered. Critical thinking, communication, and safe medication administration is integrated in the course.

### **NURA 3500 - Mental Health Nursing**

**Credits:** 5

**Prerequisite(s):** Admission into the ANO and successful completion of all prior courses in the established sequence

**Description:** The focus of this course is on the application of foundational mental health nursing concepts and interventions in the care of patients. This course includes the application of developmental theories and ethical principles to the nursing care of mental health patients. Emphasis is placed on therapeutic communication techniques, health promotion, and relapse prevention. Students apply the nursing process using critical thinking and decision making skills while providing safe, basic care to selected patients.

### **NURA 3700 - Nursing Health Assessment**

**Credits:** 3

**Prerequisite(s):** Admission to the ANO or BRNCO, and successful completion of all prior courses in the established sequence

**Description:** This course is designed for students to develop, practice, and demonstrate their health assessment competence. Utilizing the nursing process, the student collects and organizes data to obtain a complete health history and perform a physical examination. Students have an opportunity to practice interviewing skills and physical examination techniques. Emphasis is placed on the use of critical thinking, health promotion, and demonstration of a physical examination while caring for individuals throughout their lifespan.

### **NURA 3810 - Medical Surgical Nursing Care I**

**Credits:** 6

**Prerequisite(s):** Admission to the ANO and successful completion of all prior courses in the established sequence

**Description:** This course builds on the concepts introduced in Foundations of Professional Nursing Practice. Focus is on utilization of core knowledge and core competencies related to the care of adults with basic and intermediate alterations in health. Students have the opportunity to practice skills using simulation technology and in clinical practice settings. Critical thinking skills are used to begin to apply the nursing process to patient centered care. This course develops the role of the nurse in providing medical surgical nursing care. Students practice and apply skills and knowledge learned in the classroom and lab to the clinical environment.

### **NURA 4000 - Community Health Nursing**

**Credits:** 6

**Prerequisite(s):** Admission to the ANO or BRNCO, and successful completion of all prior courses in the established sequence

**Description:** This course provides the tools for critically analyzing the principles of health promotion and disease prevention of families, groups, and communities. Cultural diversity, ethics, legal, and political responsibility of the nurse is discussed. The leadership roles of advocate, change agent, collaborator, resource person, and teacher are emphasized. The learner applies theories and models from the fields of public health, education, and nursing to community health

nursing. Focus is placed on community needs assessment, epidemiology, communicable disease, vulnerable populations, and health risks across the lifespan.

### **NURA 4030 - Nursing Care of the Childbearing Family**

**Credits:** 5

**Prerequisite(s):** Admission to the ANO and successful completion of all prior courses in the established sequence

**Description:** This course focuses on the management and provision of nursing care for childbearing women and their families. The nursing process is utilized to provide family centered nursing care for the patient and family across the health care continuum. Emphasis is placed on maternal/newborn health promotion, prevention concepts related to antepartal, intrapartal, postpartum, and neonatal life stages. Students examine the rationale and procedures for implementation of a variety of skills needed for the childbearing woman and newborn. Students have the opportunity to practice skills using simulation technology and in clinical practice settings. Students apply core knowledge and competencies in the provision of care of the childbearing patient and their family, including the role of educator.

### **NURA 4110 - Medical Surgical Nursing Care II**

**Credits:** 6

**Prerequisite(s):** Admission to the ANO and successful completion of all prior courses in the established sequence

**Description:** This course expands on the concepts introduced in Medical Surgical Nursing Care I. Focus is on utilization of core knowledge and core competencies related to the care of adults with intermediate and complex alterations in health. Critical thinking skills are used to apply the nursing process to patient centered care. This course further develops the role of the nurse in providing medical surgical nursing care. Students have the opportunity to practice skills using simulation technology and in clinical practice settings.

### **NURA 4150 - Ethics and Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s):** Admission into the ANO and successful completion of all prior courses in the established curriculum sequence or faculty permission

**Description:** The course prepares the professional nursing student to analyze ethical issues that emerge in the practice of nursing. This course introduces the student to ethical theories and principles as well as ethical decision making models applied to professional nursing. Students apply critical thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing the ethical dilemmas encountered in professional practice. Values and beliefs are examined in the context of ethical issues, role development, and application in health care.

### **NURA 4200 - Child and Family Health Nursing**

**Credits:** 5

**Prerequisite(s):** Admission to the ANO and the successful completion of all prior courses in the established sequence

**Description:** This theoretical and clinical course focuses on the application of the nursing process in the delivery of evidenced based nursing care to children and their families. Health promotion, illness, injury prevention, health teaching, and anticipatory guidance are emphasized. Developmentally appropriate care is integrated into the management of pediatric disorders and diseases. Students develop clinical skills using simulation technology and clinical practice environments.

### **NURA 4300 - Leadership and Management in Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s):** Admission into the ANO or BRNCO and successful completion of all prior courses in the established sequence

**Description:** This course is designed to assist the student in developing as a professional nurse by investigating leadership and management theories and principles. This course emphasizes management, leadership, organizational theories, policy, regulatory requirements, evidence based practice and business economics. Major emphasis is placed on accountability and communication.

### **NURA 4850 - Nursing Senior Experience**

**Credits:** 5

**Prerequisite(s):** NUR 4000 or faculty permission

**Description:** This course provides nursing students with the opportunity to synthesize program concepts and theories. The clinical component is designed to support the student's learning needs. Students collaborate with faculty and the clinical preceptor to develop individual learning outcomes that relate to course objectives and program student learning outcomes.

**University Requirement(s):** Senior Experience

## **Nursing, RN to BSN**

### **NUR 3100 - RN to BSN Role Transition**

**Credits:** 3

**Prerequisite(s):** Admission to BRNCO

**Description:** This course facilitates transition to the role of the baccalaureate nurse. This course begins the exploration of the nursing program mission and philosophy with an emphasis on nursing theories, evidence-based practice, and regulatory aspects of the profession, professional behavior and individual accountability. This course integrates communication, critical thinking, and cultural humility in the context of baccalaureate nursing practice.

### **NUR 3120 - Introduction to Exemplary Professional Practice**

**Credits:** 3

**Prerequisite(s):** Acceptance into the BRNCO program

**Description:** This course facilitates the transition to the role of the baccalaureate nurse, examining the nursing profession with a focus on nursing theories and philosophy, Quality and Safety Education for Nurses, professional development, and Forces of Magnetism. This

course integrates communication, critical thinking, teamwork, and patient-centered care in the context of baccalaureate nursing practice.

### **NUR 3150 - Introduction to Gerontology Nursing**

**Credits:** 3

**Prerequisite(s):** Admission to BRNCO

**Description:** This course emphasizes understanding the impact of individual and societal perceptions of aging and the aging process. Students examine cultural, legal, and environmental factors, and the diverse health status found in the older adult. Communication skills are developed as an essential feature of the care of the older adult in a variety of settings. The core knowledge concepts and role development of the professional nurse in caring for older adults are explored.

### **NUR 3160 - Nursing Ethics and Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUR 3110

**Description:** The course prepares the professional nursing student to analyze ethical issues that emerge in the practice of nursing. The Magnet/Pathways to Excellence concept of Exemplary Practice and the QSEN competencies of Patient-Centered Care, Teamwork and Collaboration, and Evidence-Based Practice are explored as they relate to ethics and professional nursing. This course introduces the student to ethical theories and principles as well as ethical decision-making models applied to professional nursing. Students apply critical thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing the ethical dilemmas encountered in professional practice. Values and beliefs are examined in the context of ethical issues, role development, and application in health care.

### **NUR 3300 - End of Life Care**

**Credits:** 3

**Prerequisite(s):** Admission to BRNCO

**Prerequisite(s) or Corequisite(s):** NUR 3100, NUR 3800

**Description:** This course emphasizes the understanding of the impact of individual and societal perceptions of death and dying. Students examine cultural, ethical, and legal factors concerning end of life care. Communication skills are developed as an essential feature of care in a variety of settings. The core knowledge concepts and role development of the professional nurse in caring for dying patients are explored.

### **NUR 3400 - Evidence Based Practice Through Nursing Research**

**Credits:** 3

**Prerequisite(s):** NUR 3160, NUR 3770, NUR 3810

**Prerequisite(s) or Corequisite(s):** NUR 4040

**Description:** This course introduces the student to the Evidence-Based Practice (EBP) research process. The knowledge and competence needed to critique published research are explored. Students learn how to use research in support of their EBP. Course content aligns with the Magnet/Pathway to Excellence concepts including Empirical Outcomes, Exemplary Professional Practice,

New Knowledge, Innovations, and Improvements, and QSEN Competencies of EBP and Patient-Centered Care. Ethical and legal considerations are also discussed. Qualitative and quantitative research processes are examined. Students complete a literature search using appropriate databases on a researchable problem and communicate findings. Emphasis is placed on the improvement of nursing practice through reading, using, and participating in research.

### **NUR 3700 - Nursing Health Assessment**

**Credits:** 3

**Prerequisite(s):** Admission to BRNCO

**Description:** This course is designed for students to develop, practice, and demonstrate their health assessment competence. Utilizing the nursing process, the student collects and organizes data to obtain a complete health history and perform a physical examination. Students have an opportunity to practice interviewing skills and physical examination techniques. Emphasis is placed on the use of critical thinking, health promotion, and demonstration of a physical examination while caring for individuals throughout their lifespan.

### **NUR 3770 - Nursing Care Coordination of Acute and Chronic Disease Management**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUR 3120

**Description:** This theory course builds on the student's previous knowledge of physiological and psychosocial components of illness. Magnet/Pathway's to Excellence concepts of Structural Empowerment and Exemplary Professional Practice and QSEN Competencies of Patient-Centered Care, Teamwork and Collaboration, and Evidence-Based Practice are integrated in the course to help clarify the role of the Care Coordinator of a baccalaureate-prepared nurse. Updates on genomics and genetics, pain management, the stress response, immune disorders, mental and behavioral health disorders, rehabilitative, and palliative, and end-of-life care are addressed. Nursing care coordination of acute and chronic disease concepts including pathophysiology, pharmacology, and physical assessment components are integrated with patient-centered, evidence-based disease management, and inter-professional collaboration to determine and provide safe, high quality, and cost-effective care.

### **NUR 3800 - Advances in Clinical Practice**

**Credits:** 3

**Prerequisite(s):** Admission to BRNCO

**Description:** This course is designed to update students about evolving clinical issues and practice trends. Focus is on the role of the nurse in collecting and disseminating evidence to enhance evidence based practice. Core knowledge in pathophysiology, pharmacology, medical surgical nursing, pediatric nursing, obstetric nursing, psychiatric nursing, and community health nursing are explored. Specific course content reflects individual student nursing experiences and needs. Topics include patient safety and error reduction. The student is expected to access electronic information resources.

### **NUR 3810 - Multicultural Care of Patients and Their Families**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUR 3120

**Description:** This course will provide nursing and pre-nursing students with the tools necessary to understand how multicultural care has been and is now being provided to patients and their families. It will bring to light the discrepancies and biases to people of color in the healthcare world and examine what we can do about it for more equity today. This course would help decrease stereotype threats by showing students diversity and have them examine their own biases.

**University Requirement(s):** Multicultural

### **NUR 3910 - Introduction to Critical Care Nursing**

**Credits:** 8

**Prerequisite(s):** Successful completion of course application process

**Description:** This course introduces the registered nurse to the field of critical care nursing. The American Association of Critical Care Nurses: "Essentials of Critical Care Orientation™" is used as the basis for the course. Foundational knowledge, skill based labs and clinical practice provide basic critical care education to novice critical care nurses to provide safe patient care.

### **NUR 3920 - Introduction to Emergency Nursing**

**Credits:** 8

**Prerequisite(s):** Successful completion of course application process

**Description:** This course introduces the registered nurse to the essential principles of emergency nursing. The Emergency Nurses Association online orientation modules™ and *Sheehy's Manual of Emergency Care* is used as the basis for the course. Foundational emergency nursing knowledge, skill-based laboratory, and clinical practicums provide basic education to novice emergency nurses to provide safe patient care.

### **NUR 4000 - Community Health Nursing**

**Credits:** 6

**Prerequisite(s):** NUR 3100, NUR 3150, NUR 3400, NUR 3700, NUR 3800, and NUR 4150, Active Colorado RN License

**Description:** This course provides the tools for critical analysis of the principles of health promotion and disease prevention of families, groups, and communities. Cultural diversity, ethics, legal, and political responsibility of the nurse is discussed. The leadership roles of advocate, change agent, collaborator, resource person, and teacher are emphasized. The learner applies theories and models from the fields of public health, education, and nursing, to community health nursing. Focus is placed on community needs assessment, epidemiology, communicable disease, vulnerable populations, and health risks across lifespan.

### **NUR 4010 - Population Health Nursing**

**Credits:** 3

**Prerequisite(s):** NUR 3120, NUR 3160, NUR 3400, NUR 3770, NUR 3810, NUR 4040

**Prerequisite(s) or Corequisite(s):** NUR 4310

**Description:** The focus of this course is to provide the practical clinical experience required for Population and Community Health Nursing. The learner applies theory from fields of public health, education, and nursing to population and community health nursing. Focus is placed on community assessment, QSEN, Magnet Status, and the American Association of Ambulatory Care Nurses - Nurse Sensitive Indicators to consider how to achieve quality care in the community.

### **NUR 4020 - Population Health Nursing Practicum**

**Credits:** 3

**Prerequisite(s):** NUR 3120, NUR 3160, NUR 3400, NUR 3770, NUR 3810, NUR 4040, NUR 4310

**Description:** This focus of this course is to provide the practical clinical experience required for Population and Community Health Nursing. The learner applies theory from fields of public health, education and nursing to population and community health nursing. Focus is placed on community assessment, QSEN, Magnet Status and the American Association of Ambulatory Care Nurses - Nurse Sensitive Indicators to consider how to achieve quality care in the community.

### **NUR 4040 - Quality Care and Patient Safety Using Nursing Informatics**

**Credits:** 3

**Prerequisite(s):** NUR 3120, NUR 3160, NUR 3400, NUR 3770, NUR 3810

**Description:** This course introduces the student to the process of collecting and analyzing data used to improve the quality of care patients receive and enhance their safety. Course content aligns with Magnet/Pathways to Excellence of Empirical Outcomes, New Knowledge, Innovations, and Improvement and QSEN Competencies of Evidence-Based Practice (EBP), Quality Improvement, Safety and Informatics. A basic overview of nursing informatics and how it applies to clinical practice will be explored. During this course students will navigate an electronic health record (EHR) to identify essential information that must be available in a common database that documents patient care. Analysis of data from the EHR will be compared with current relevant literature, and selected national benchmarking goals. Introduction to patient satisfaction survey scores will be examined as they relate to patient-centered care, quality and safety to improve overall practice. Ethical, legal, and regulatory considerations are upheld related to data security, confidentiality, and patient's right to privacy.

### **NUR 4150 - Ethics and Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s):** NUR 3100, NUR 3800, NUR 3700, NUR 3150

**Description:** This course prepares the professional nursing student to analyze ethical issues that emerge in the practice of nursing. This course introduces the student to ethical theories and principles as well as ethical decision making models applied to professional nursing. Students apply critical thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing the ethical dilemmas encountered in professional practice. Values and

beliefs are examined in the context of ethical issues, role development, and application in health care.

### **NUR 4300 - Leadership and Management in Professional Nursing Practice**

**Credits:** 4

**Prerequisite(s):** NUR 4000

**Description:** This course is designed to assist the student in developing as a professional nurse by investigating leadership and management theories and principles. The course emphasizes management, leadership, organizational theories, policy, regulatory requirements, evidence-based practice and business economics. Major emphasis is placed on accountability and communication.

### **NUR 4310 - Transformational Nursing Leadership**

**Credits:** 3

**Prerequisite(s):** NUR 3120, NUR 3160, NUR 3400, NUR 3770, NUR 3810, NUR 4040

**Description:** This course is designed to assist the student in developing as a professional nurse by investigating leadership and management theories and styles. Students examine how to employ leadership roles to effectively lead and manage diverse groups of people. Students explore how to apply concepts like critical thinking, problem solving, emotional intelligence, and communication to the nursing leadership role. This course emphasizes Magnet Concepts of Transformational Leadership, QSEN Competencies, and professional development.

### **NUR 4860 - Nursing Capstone: Culmination of the Magnet Journey**

**Credits:** 3

**Prerequisite(s):** NUR 3110, NUR 3160, NUR 3400, NUR 3750, NUR 3850, NUR 4040, NUR 4310

**Prerequisite(s) or Corequisite(s):** NUR 4010, NUR 4020

**Description:** This course provides nursing students the opportunity to narrate their journey of magnet learning throughout the program. In this course, students will describe the process of effective change by linking theoretical constructs and philosophical tenets of previous classes in the program. An important objective of this class is for the student to summarize the relationship in their own practice between the magnet concepts and QSEN goals for improved patient outcomes.

**University Requirement(s):** Senior Experience

## **Nursing, Traditional**

### **NURS 3020 - Foundations of Professional Nursing Practice**

**Credits:** 6

**Prerequisite(s):** Admission to TNO

**Description:** This course introduces the student to the profession of nursing and the culture of the health care environment. The core knowledge, core competencies and role development of the professional nurse are explored. Students begin to develop an understanding of human responses to health and illness within the nurse-client relationship. Students begin to apply the nursing process,

critical thinking and clinical reasoning, with an emphasis on communication. Practice environments for the development of basic nursing skills include the facilitated simulation laboratory and a health care facility.

### **NURS 3150 - Introduction to Gerontology Nursing**

**Credits:** 3

**Prerequisite(s):** Admission to TNO

**Description:** This course emphasizes understanding the impact of individual and societal perceptions of aging and the aging process. Students examine cultural, legal, and environmental factors, and the diverse health status found in the older adult. Communication skills are developed as an essential feature of the care of the older adult in a variety of settings. The core knowledge concepts and role development of the professional nurse in caring for older adults are explored.

### **NURS 3400 - Evidence Based Practice Through Nursing Research**

**Credits:** 3

**Prerequisite(s):** NURS 3020, NURS 3150, NURS 3700, NURS 3410

**Description:** This course introduces the student to the Evidence-Based Practice (EBP) research process. The knowledge and competence needed to critique published research are explored. Students learn how to use research in support of their EBP. Course content aligns with the Magnet/Pathway to Excellence concepts including Empirical Outcomes, Exemplary Professional Practice, New Knowledge, Innovations, and Improvements, and QSEN Competencies of EBP and Patient-Centered Care. Ethical and legal considerations are also discussed. Qualitative and quantitative research processes are examined. Students complete a literature search using appropriate databases on a researchable problem and communicate findings. Emphasis is placed on the improvement of nursing practice through reading, using, and participating in research.

### **NURS 3410 - Clinical Pharmacology**

**Credits:** 4

**Prerequisite(s):** Admission to TNO

**Description:** Clinical pharmacology covers the major principles of pharmacology, drug classifications, and pharmacotherapy. The nursing process, legal, ethical, cultural, and social values are also discussed in relationship to various disease processes and complex patient situations. Drug calculations are also covered. Critical thinking, communication and safe medication administration is integrated in the course.

### **NURS 3500 - Mental Health Nursing**

**Credits:** 5

**Prerequisite(s):** NURS 3020, NURS 3150, NURS 3410, NURS 3700

**Description:** The focus of this course is on the application of foundational, mental health nursing concepts and interventions in the care of patients. This course includes the application of

developmental theories and ethical principles to the nursing care of mental health patients. Emphasis is placed on therapeutic communication techniques, health promotion and relapse prevention. Students apply the nursing process using critical-thinking and decision-making skills, while providing safe, basic care to selected patients.

### **NURS 3700 - Nursing Health Assessment**

**Credits:** 3

**Prerequisite(s):** Admission to TNO

**Description:** This course is designed for students to develop, practice, and demonstrate their health assessment competence. Utilizing the nursing process, the student collects and organizes data to obtain a complete health history and perform a physical examination. Students have an opportunity to practice interviewing skills and physical examination techniques. Emphasis is placed on the use of critical thinking, health promotion, and demonstration of a physical examination while caring for individuals throughout their lifespan.

### **NURS 3810 - Medical Surgical Nursing Care I**

**Credits:** 6

**Prerequisite(s):** NURS 3020, NURS 3150, NURS 3410, NURS 3700

**Description:** This course builds on concepts introduced in Foundations of Professional Nursing Practice. Focus is on utilization of core knowledge and core competencies related to the care of adults with basic and intermediate alterations in health. Students have the opportunity to practice skills using simulation technology and in clinical practice settings. Critical-thinking skills are used to begin to apply the nursing process to patient-centered care. This course develops the role of the nurse in providing medical surgical nursing care. Students practice and apply skills and knowledge learned in the classroom and lab to the clinical environment.

### **NURS 4000 - Community Health Nursing**

**Credits:** 6

**Prerequisite(s):** NURS 4030, NURS 4110, NURS 4150, and NURS 4300

**Description:** This course provides the tools for critically analyzing the principles of health promotion and disease prevention of families, groups and communities. Cultural diversity, ethics, and the legal and political responsibility of the nurse is discussed. The leadership roles of advocate, change agent, collaborator, resource person and teacher are emphasized. The learner applies theories and models from the fields of public health, education and nursing to community health nursing. Focus is placed on community needs assessment, epidemiology, communicable disease, vulnerable populations and health risks across the lifespan.

### **NURS 4030 - Nursing Care of the Childbearing Family**

**Credits:** 5

**Prerequisite(s):** NURS 3400, NURS 3500, NURS 3810

**Description:** This course focuses on the management and provision of nursing care for childbearing women and their families. The nursing process is utilized to provide family-centered nursing care for the patient and family across the health care continuum. Emphasis is placed on maternal and newborn health promotion, as well as prevention concepts related to antepartal, intrapartal, postpartum, and neonatal life stages. Students examine the rationale and procedures for implementation of a variety of skills needed for the childbearing woman and newborn. Students have the opportunity to practice skills using simulation technology and in clinical practice settings. Students apply core knowledge and competencies in the provision of care of the childbearing patient and their family, including the role of educator.

### **NURS 4110 - Medical Surgical Nursing Care II**

**Credits:** 6

**Prerequisite(s):** NURS 3400, NURS 3500, NURS 3810

**Description:** This course expands on the concepts introduced in Medical Surgical Nursing Care I. Focus is on utilization of core knowledge and core competencies related to the care of adults with intermediate and complex alterations in health. Critical-thinking skills are used to apply the nursing process to patient-centered care. This course further develops the role of the nurse in providing medical surgical nursing care. Students have the opportunity to practice skills using simulation technology and in clinical practice settings.

### **NURS 4150 - Ethics and Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s):** NURS 3400, NURS 3500, NURS 3810

**Description:** This course prepares the professional nursing student to analyze ethical issues that emerge in the practice of nursing. This course introduces the student to ethical theories and principles, as well as ethical decision-making models applied to professional nursing. Students apply critical-thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing the ethical dilemmas encountered in professional practice. Values and beliefs are examined in the context of ethical issues, role development, and application in health care.

### **NURS 4200 - Child and Family Health Nursing**

**Credits:** 5

**Prerequisite(s):** NURS 4030, NURS 4110, NURS 4150, NURS 4300

**Description:** This theoretical and clinical course focuses on the application of the nursing process in the delivery of evidence-based nursing care to children and their families. Health promotion, illness, injury prevention, health teaching and anticipatory guidance are emphasized. Developmentally appropriate care is integrated into the management of pediatric disorders and diseases. Students develop clinical skills using simulation technology and clinical practice environments.

## **NURS 4300 - Leadership and Management in Professional Nursing Practice**

**Credits:** 3

**Prerequisite(s):** NURS 3400, NURS 3500, NURS 3810

**Description:** This course is designed to assist the student in developing as a professional nurse by investigating leadership and management theories and principles. This course emphasizes management, leadership, organizational theories, policy, regulatory requirements, evidence-based practice, and business economics. Major emphasis is placed on accountability and communication.

## **NURS 4850 - Nursing Senior Experience**

**Credits:** 5

**Prerequisite(s):** NURS 4000

**Description:** This course provides nursing students with the opportunity to synthesize program concepts and theories. The clinical component is designed to support the student's learning needs. Students collaborate with faculty and the clinical preceptor to develop individual learning outcomes that relate to course objectives and program student learning outcomes.

**University Requirement(s):** Senior Experience

## **Nutrition**

### **NUT 1800 - Careers in Nutrition and Dietetics**

**Credits:** 1

**Description:** This course identifies and discusses career options and market trends within the fields of nutrition, dietetics, and food service management. It reviews the academic and professional requirements for successful entry into these fields.

### **NUT 2040 - Introduction to Nutrition**

**Credits:** 3

**Description:** This course is designed to provide students with an understanding of the fundamental concepts of human nutrition, including digestion, absorption, metabolism, and the function of nutrients as they relate to human health and disease.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC2

**Cross Listed Course(s):** HON 2040

### **NUT 3040 - Nutrition Concepts and Controversies**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course provides additional study of the chemistry and biochemistry of nutrients, metabolic functions in health and disease, food composition, digestion, absorption, and nutrient utilization with a focus on how these concepts relate to current nutrition topics being discussed in the popular press. This course is intended for non-nutrition majors.

## **NUT 3050 - Concepts of Lifecycle Nutrition**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course is designed to increase the non-nutrition major's knowledge of the physiological, psychological, sociological, and cultural factors which influence nutritional needs and eating habits throughout the life cycle. Nutrient requirements, dietary planning guidelines, and techniques for assessing nutritional status will be presented for the following life stages: preconception, pregnancy, lactation, infancy, childhood, adolescence, and aging.

*Note: Students cannot take both NUT 3290 and NUT 3050 for credit. Credit will be granted for only one prefix: HON or NUT.*

**Cross Listed Course(s):** HON 3051

### **NUT 3101 - Body Image: Concepts and Approaches**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** Body image concerns too often inhibit women's, men's, and non-binary people's health and productivity. Like any challenge, these also hold potential for stimulating personal and civic transformation. In this course, students from all backgrounds explore the genetic, developmental, social, cultural, technological, and geopolitical factors affecting perceptions of healthy weight, size, and body image. They engage with evidence-based behavior change theories, strategies, and activities. These expand their capacity for promoting healthy behaviors and productive perspectives in diverse settings including families, schools, sports, college, workplaces, healthcare, social media, and other types of communities.

**General Studies:** Social and Behavioral Sciences

### **NUT 3150 - Advanced Nutrition - Macronutrients**

**Credits:** 3

**Prerequisite(s):** NUT 1040 or NUT 1800, NUT 2040, BIO 2320, CHE 2100, CHE 2150, DPD application submitted to department

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** Digestion, absorption, metabolism and health effects of macronutrients, water and alcohol are covered in this course. Also included are basic concepts of energetics, electrolytes, artificial sweeteners and fiber.

### **NUT 3160 - Advanced Nutrition - Micronutrients**

**Credits:** 3

**Prerequisite(s):** NUT 1040 or NUT 1800, NUT 2040, BIO 2320, CHE 2100, CHE 2150, DPD application submitted to department

**Prerequisite(s) or Corequisite(s):** MTH 1210

**Description:** Digestion, absorption, metabolism and health effects of micronutrients are covered in this course. Also included are basic concepts of the Dietary Reference Intakes, phytochemicals, supplements, microbiome, epigenetics, and nutrigenomics.

### **NUT 3170 - Advanced Human Nutrition**

**Credits:** 3

**Prerequisite(s):** Permission of Instructor

**Description:** This course provides a detailed overview of the biochemistry, metabolism, digestion, absorption and utilization of both macronutrients and micronutrients. Health effects and interactions among macronutrients, micronutrients, and phytochemicals are explored. Recommended intakes, deficiencies, toxicities and health issues are discussed. Nutrient sources of foods are included. This course can be used as a prerequisite advanced nutrition course covering macro and micronutrients to the MSU Denver nutrition master's program.

### **NUT 3200 - Nutrition and Sports Performance**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course is designed to enable the student, through application of the basic principles of nutrition, to improve his/her health, fitness, and physical performance within the limits set by genetic endowment and level of training.

### **NUT 3300 - Cultural Aspects of Nutrition**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** Students will learn about the formation and significance of cultural identity among people identifying with a Native American, African American, Hispanic, Asian, or European heritage and its importance as it relates to food choices, behaviors, and nutritional status. They will also examine the impact of cultural differences, the nutritional value of ethnic foods, nutrition-related health benefits and risks faced by various cultural groups, disparities in health care, and strategies toward successful prevention and intervention.

**University Requirement(s):** Multicultural

### **NUT 3310 - Nutrition and Food of Mexico**

**Credits:** 3

**Prerequisite(s):** Permission of the instructor

**Description:** This course is about the nutrition of Mexican citizens living in Mexico, as well as Mexican immigrants and Mexican Americans living in the United States. The course addresses nutritional status, typical foods consumed, food habits and beliefs, cultural and health beliefs related to nutrition, and government programs to improve nutritional status. Students will attend basic cooking classes and nutrition-related field trips. This course includes learning and using Spanish vocabulary for foods, eating, cooking, digestion and nutrition related diseases and conditions. Parts of the course are taught in English and parts in Spanish.

*Note: This course is part of a study abroad program run in conjunction with the Department of Modern Languages.*

### **NUT 3320 - Nutrition Study Abroad**

**Credits:** 3

**Prerequisite(s):** Nutrition Major, 2.5 GPA

**Description:** This is a variable topics course conducted in a study abroad format. The countries visited will vary as to where the course is offered. Students will study the food and culinary traditions of the

country visited, how people obtain food, health and nutrition programs available and how all of these affect the nutritional health of the country's population.

### **NUT 3350 - Global Nutrition and Health**

**Credits:** 3

**Description:** A global assessment of nutrition is covered in this course. The course examines current nutrition status of the world's populations, population growth with respect to food, causes and consequences of malnutrition, the interaction of nutrition and disease, and possible solutions for nutritional problems.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **NUT 3375 - Food Cultures**

**Credits:** 3

**Description:** This course is an exploration of how food procurement, dietary practices, ideologies of consumption, and food celebrations across cultures are related to varying environments, subsistence strategies, moral sensibilities, socioeconomic and political conditions, social identities, and social hierarchies. Using an anthropological approach, students examine how the ideological, emotional, symbolic, aesthetic, and social value of food and its marketing varies across cultures. In addition, course materials introduce students to the politics and social movements revolving around ethical food procurement and food as a human right.

*Note: Credit will be granted for only one prefix: ANT or NUT.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** ANT 3375

### **NUT 3400 - Nutrition and Weight Management**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** This course is a study of the basic principles of, and latest trends in, weight management. This course includes coverage of assessment techniques, behavioral and non-behavioral treatment approaches and prevention strategies. The concept of "health at every (body) size" will be presented. Fad diets and programs with sound nutrition principles will be analyzed.

*Note: Credit will be granted for only one prefix: HON or NUT.*

**Cross Listed Course(s):** HON 3400

### **NUT 3500 - Food Safety**

**Credits:** 3

**Prerequisite(s):** NUT 2040, BIO 1080, BIO 1090

**Description:** This course covers the safety and toxicology of food and dietary supplements with respect to microbial and non-microbial contamination. Sources of contamination, ways to prevent or control contamination, consequences of contamination and methods of detection are covered. Beneficial aspects of microbes in food with respect to human health are also discussed.

### **NUT 3700 - Nutrition Education and Counseling**

**Credits:** 3

**Prerequisite(s):** NUT 2040, HND majors and HNS majors only

**Description:** This course prepares students to participate in the specialized communications of nutrition professionals. Students will practice preparing, conducting, and analyzing group nutrition education, individual nutrition counseling, and healthcare team communications. Written communication guided by the nutrition care process will also be covered. This course is designed for nutrition majors.

#### **NUT 3800 - Nutrition Documentaries and Books**

**Credits:** 1

**Description:** An examination of nutrition, health, and wellness messages in contemporary documentary films and books. The course will focus on critical analysis and evaluation to determine the validity and reliability of messages in documentary films and books.

#### **NUT 3810 - Nutrition and Social Media**

**Credits:** 1

**Description:** This course examines nutritional messaging in social media. It covers critical thinking skills in evaluating validity of nutritional messaging. Students will explore different social media platforms, how nutrition stories are presented, and best practices for identifying if the sources are trustworthy.

#### **NUT 3820 - Plant Based Nutrition**

**Credits:** 1

**Description:** The course examines vegan and vegetarian diets. Students will explore why vegan and vegetarian diets are chosen for health, social, environmental, religious or other reasons. There will be a focus on plant-based ingredients that are part of a vegan or vegetarian diet. Relationships of vegan and vegetarian diets to disease prevention and disease states will be examined.

#### **NUT 3850 - Nutrition and Chronic Disease**

**Credits:** 3

**Prerequisite(s):** NUT 2040

**Description:** In this course, relationships between nutrition and chronic disease on an individual, group and/or population-level will be explored. The roles of nutrients, foods, dietary patterns and popular diet trends in the promotion, prevention and treatment of several chronic diseases will be explored. Students will evaluate current research related to chronic inflammation, diet and lifestyle choices and their connection to the progression of various health conditions. Chronic disease states to be discussed include, but are not limited to obesity, cardiovascular disease, diabetes, cancer, Alzheimer's, gastrointestinal health and diseases and osteoporosis.

#### **NUT 3910 - Breastfeeding Management for the Health Professional**

**Credits:** 1

**Prerequisite(s):** Junior standing; or permission of instructor

**Description:** This course is designed to increase the students'

knowledge in the area of breastfeeding support. This course is taught for students in healthcare related majors or minors and health professionals, and the role of the health care practitioner will be emphasized. The course will address barriers to breastfeeding, benefits of breastfeeding for mother, child, and environment, and the role of the health care practitioner in breastfeeding support.

#### **NUT 3980 - Internship in Nutrition**

**Credits:** 1-15

**Prerequisite(s):** Major in Human Nutrition-Dietetics; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

#### **NUT 4040 - Nutrition Research Design and Evaluation**

**Credits:** 3

**Prerequisite(s):** MTH 1210 and Junior Standing

**Description:** Understanding that modern research design and evaluation rarely occur alone and that nutrition professionals will be expected to collaborate with other members of a healthcare and/or research team, this course will provide students with an advanced and practical understanding of applied research design and evaluation in the field of nutrition. Topics include integrating the process of conducting research with study design principles, statistical analysis, qualitative and quantitative methods, research report development, dissemination of research findings and research ethics.

*Note: This course is stacked with NUT 5040. (Note: Credit will be granted for only one course.)*

#### **NUT 4050 - Global and Cultural Topics in Nutrition**

**Credits:** 3

**Prerequisite(s):** NUT 3150 and NUT 3160 or NUT 3170

**Description:** This course focuses on equipping students to work with diverse populations and provides students with a foundation of knowledge concerning historical, social, and economic factors driving global nutrition. The current and future state of global nutrition will be discussed along with historical and future methods for addressing global malnutrition. Topics include epidemiology of nutritional diseases and malnutrition, sustainable agriculture, ethics in food, analyzing cross-cultural communication skills, identifying and utilizing culturally appropriate strategies in counseling and client care, and exploring various cultural traditions.

*Note: This course is stacked with NUT 5050. (Note: Credit will be granted for only one course.)*

#### **NUT 4060 - Nutrition Communication Strategies**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUT 4040, NUT 4050

**Description:** This course provides students with an opportunity to examine and apply strategies and principles of effective communication for diverse audiences in the field of nutrition. Emphasis will be placed on effective translation and dissemination of scientific findings to diverse audiences using a variety of communication strategies including individual counseling, group facilitation, advocacy, and public speaking. The evaluation, interpretation, and communication of scientific literature will also be emphasized.

*Note: The course is stacked with NUT 5060 (Credit will be granted for only one course.)*

### **NUT 4200 - Lifecycle Nutrition for Majors**

**Credits:** 3

**Prerequisite(s):** NUT 3140 or NUT 3150

**Description:** This course is designed to increase the nutrition major's knowledge about the physiological, psychological, sociological, and cultural factors which influence nutritional needs and eating habits throughout the life cycle with a focus on evidence-based practices. Nutrient requirements, dietary planning guidelines, and techniques for assessing nutritional status will be presented for the following life stages: preconception, pregnancy, lactation, infancy, childhood, adolescence, and aging.

### **NUT 4210 - Community Nutrition**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUT 4200

**Description:** This course is concerned with the nutritional status of individuals and families in the community. Topics covered include community assessment, programs and resources, legislation, education, and program planning as they impact nutrition for groups.

*Note: Some sections of this course may be taught as Service Learning.*

### **NUT 4300 - Management in Dietetics**

**Credits:** 3

**Prerequisite(s):** RST 1200 or RST 1550

**Description:** This course is designed to provide the foundational knowledge and skills required in operation of establishments related to dietetics practice, including clinical, community, public health, school food service and private industry. Topics covered include the theories of organization and management applied to these dietetics practice environments, with an emphasis on operations strategies, quality management and cost control, forecasting, and supply chain management.

### **NUT 4350 - Leadership Principles in Nutrition**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** NUT 4300

**Description:** This course provides students with an opportunity to explore leadership concepts in Nutrition and Health. Students will

study different leadership theories and practice the application to specific situations they may experience in the health care field. Students will also perform self-assessments related to learning and leadership styles, practice self-advocacy and promote team involvement. Emphasis will be placed on interdisciplinary relationships, leadership as it relates to employees of different backgrounds and experiences, and the application of the appropriate leadership theory.

### **NUT 4700 - Medical Nutrition Therapy I**

**Credits:** 3

**Prerequisite(s):** NUT 3150

**Description:** This course examines principles and application of medical nutrition therapy as related to specific disease states. Topics include the nutrition care process, nutrition assessment, nutrition support, and therapeutic diets.

### **NUT 4720 - Nutrition Capstone**

**Credits:** 3

**Prerequisite(s):** Senior standing

**Prerequisite(s) or Corequisite(s):** NUT 4700 or NUT 4800

**Description:** This seminar provides a forum for discussion of topics of current relevance to students preparing for a career in nutrition. Topics include career planning, further education opportunities, professionalism, ethical issues, research, and effective communication.

*Note: Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Senior Experience

### **NUT 4750 - Medical Nutrition Therapy II**

**Credits:** 3

**Prerequisite(s):** NUT 3160, NUT 4700

**Description:** This course integrates knowledge of pathophysiology of selected diseases with nutrition intervention and prevention of various disease states. Students are introduced to the skills required to plan and implement modified diets for selected medical conditions. The course incorporates understanding, assessing, application and teaching of dietary modifications while considering the physiological, psychological, social and cultural aspects of the individual.

### **NUT 4800 - Medical Nutrition Therapy**

**Credits:** 4

**Prerequisite(s):** NUT 3150

**Description:** This course examines principles and application of Medical Nutrition Therapy as related to specific disease states. The course integrates knowledge of pathophysiology of selected diseases with nutrition intervention of various disease states. Students are introduced to the skills required to plan and implement modified diets for select medical conditions. The course encompasses understanding, assessing, application, and teaching of dietary modifications while considering the physiological, psychological, social, and cultural aspects of the individual.

*Note: Students cannot earn credit for NUT 4700/4750 and NUT 4800*

## NUT 4950 - Lactation Management

**Credits:** 3

**Description:** A clinical training course that provides 50 of the required 95 hours of lactation-specific education (including the 5 hour communication requirement) to become eligible for the International Board Certified Lactation Consultant exam. This course explores breastfeeding anatomy and physiology. Discusses common breastfeeding issues. Topics include anatomy of the breast, supporting the breastfeeding dyad, culturally informed breastfeeding support, and education in community and clinical settings. The course will be taught using competency-based learning and application of primary research.

## NUT 4970 - Clinical Skills for Breastfeeding Support

**Credits:** 3

**Prerequisite(s):** NUT 4950

**Description:** A clinical training course that provides 45 of the required 95 hours of lactation-specific education to become eligible for the International Board Certified Lactation Consultant exam. This course explores the principles and anthropology of human lactation, triage of breastfeeding problems, breastfeeding techniques, maternal and infant nutrition, and application of clinical breastfeeding support skills in real and simulated consultation scenarios. This dyad-focused information will prepare students to support breastfeeding in a variety of healthcare-related roles. This course will be taught using competency-based learning and application of primary research.

## NUT 4990 - Clinical Lactation Practicum

**Credits:** 1-8

**Prerequisite(s):** NUT 4950 and NUT 4970

**Description:** Students in the course will learn hands-on, practical experiences in the field of lactation.

## Parent Education

### PAR 2050 - Introduction to Parent Education

**Credits:** 3

**Description:** This course is designed to introduce the student to the field of parent education, its history, scope, methods, and issues are raised. The aim of the course is to provide a broad overview of the field, either as a basis for further course work in parent education or as a brief introduction to an area of growing interest.

### PAR 3070 - Working with the Contemporary Family

**Credits:** 3

**Prerequisite(s):** Junior or Senior standing

**Description:** This course is designed to familiarize students with the contemporary family: its structures, stresses, strengths, and the legal and political issues that impact it are emphasized. Students will learn how parent educators can assist today's family and will be given the opportunity to apply course learnings to a specific family situation.

## PAR 4890 - Parent Education Field Placement

**Credits:** 3

**Prerequisite(s):** PAR 2050 and PAR 3070

**Description:** The field placement is individually designed to meet the needs of the student. It provides opportunities to plan, implement, and evaluate programs and projects in a parent education setting. The program director works closely with students and community agencies in setting up each field placement.

## Philosophy

### PHI 1010 - Introduction to Philosophy

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing preassessment placement tests

**Description:** This is a first philosophy course designed to introduce students to basic philosophical issues, primarily in the areas of metaphysics (what there is) and epistemology (how we know). This course covers fundamental questions such as, for example: "Do humans possess free will of is everything a matter of causal necessity?" or "Is there a God or an afterlife?" Important cultural achievements, in the form of original and complete works, will be emphasized.

*Note: Credit will be granted for only one prefix: PHI or HON.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH3

**Cross Listed Course(s):** HON 1011

### PHI 1030 - Introduction to Ethics

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing preassessment placement tests

**Description:** This is a first philosophy course designed to introduce students to basic philosophical issues, primarily in the areas of moral and social philosophy. This course covers fundamental questions such as, for example: "What is the relation, if any, between morality and religion?" or "How should society be best organized?" Important cultural achievements, in the form of original and complete works, will be emphasized.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH3

### PHI 1040 - Introduction to Eastern Religions

**Credits:** 3

**Prerequisite(s):** Minimum standards on reading and writing placement tests

**Description:** This course is an introductory survey of the major religious frameworks of Asia, particularly India, China, and Japan, with primary emphasis on the philosophical texts, historical evolution, and cultural traditions of Hinduism, Buddhism, and Daoism.

**General Studies:** Arts and Humanities, Global Diversity

**Guaranteed Transfer:** GT-AH3

### **PHI 1050 - Introduction to Western Religions**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing placement tests

**Description:** This course is an introductory survey of the major religious communities of the West (originating Near East), with primary emphasis on the historical evolution and living traditions of Judaism, Christianity, and Islam.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH3

### **PHI 1060 - Ethics in Medicine and Science**

**Credits:** 3

**Description:** In this course students acquire a knowledge base and the skills that allow them to reflect ethically upon issues in medicine and science. Students study different philosophical-ethical theories and approaches and learn how to apply them to different issues in medicine and science.

**Guaranteed Transfer:** GT-AH3

**University Requirement(s):** Arts and Humanities

### **PHI 1110 - Language, Logic & Persuasion**

**Credits:** 3

**Description:** This course is an introduction to critical analysis, thinking and expression, covering three main areas: (1) *language*: the significance of words, and their arrangements, in psychological appeals to the senses and the emotions; (2) *logic*: the structures of formal reasoning in arguments and in appeals to reason; and (3) *persuasion*: the rhetorical aspects of discourse and presentation, especially in appeals to ideals or character. Practical skills and applications will be emphasized.

**General Studies:** Oral Communication

### **PHI 2000 - Multicultural Identities in America**

**Credits:** 3

**Description:** This course examines various aspects of multicultural identities in the United States. Students utilize a variety of philosophical concepts and theories, which contribute to their understanding of multicultural identities. Students learn important philosophical and cultural contributions from these identities, which have helped enrich American life. The course covers two or more of the following groups: African Americans, Asian Americans, Latin Americans, or Native Americans. The course may include specific topics concerning gender, sexual orientation, age, or disability within these groups.

**University Requirement(s):** Multicultural

### **PHI 2040 - Philosophy of Religion**

**Credits:** 3

**Prerequisite(s):** PHI 1010 or PHI 1030 or PHI 1040 or PHI 1050 recommended

**Description:** This is a course on the philosophical dimensions of religious faith, belief, and/or practice; the nature and scope of

religious experiences; and/or the existence and/or source of divinity. This course satisfies the General Studies Arts and Humanities Requirement.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH3

### **PHI 2440 - Symbolic Logic**

**Credits:** 3

**Description:** This course is a general introduction to formal or symbolic logic. Topics covered include all aspects of sentential or propositional logic, beginning with the rules for determining the validity of deductive arguments and continuing through to the symbolization and syntax of the first-order predicate calculus.

### **PHI 2600 - Chicana/o and Latina/o Religious Cultures**

**Credits:** 3

**Description:** This course will engage aspects of Chicana/o and Latina/o religious experiences, practices, and expressions in the United States of America. While the course is grounded in Chicana/o religious experience, other Latina/o communities will also be discussed with emphasis on comparative aspects of the groups. Some attention will be given to historical contexts in Iberia and Latin America, as well as questions of how one studies Latina/o religions, but most of the course will examine moments in which religious expressions intersect with politics, popular culture, and daily life in the U.S.A.

*Note: Credit will be granted for only one prefix: CHS or PHI.*

**Cross Listed Course(s):** CHS 2600

### **PHI 3000 - History of Ancient Philosophy**

**Credits:** 3

**Description:** This course is a survey of the history of ancient philosophy, focusing on the Greeks. The life and work of Socrates, Plato and Aristotle receive special attention.

**General Studies:** Arts and Humanities

### **PHI 3020 - History of Modern Philosophy**

**Credits:** 3

**Description:** This course is a survey of the history of modern philosophy, from the Renaissance to Romanticism. The work of Descartes, Hume, and Kant receive special attention.

**General Studies:** Arts and Humanities

### **PHI 3050 - Special Topics in the History of Philosophy: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3000 and/or PHI 3020 recommended

**Description:** This course is devoted to special topics in the history of philosophy. These topics may involve eras falling outside the foci of the historical sequence, such as Hellenistic or Roman philosophy, Medieval or Renaissance philosophy, or nineteenth and twentieth century philosophy. Or they may consider the historical progression of a special topic, such as skepticism, that is considered in a more in-

depth or advanced level.

*Note: This course may be repeated for credit up to four times under different topics.*

### **PHI 3120 - Philosophy of Language**

**Credits:** 3

**Prerequisite(s):** PHI 2440 is recommended

**Description:** This course is a general introduction to central questions and topics in the philosophy of language. Special consideration is given to historical and contemporary issues in the analytic tradition.

### **PHI 3150 - Social and Political Philosophy**

**Credits:** 3

**Prerequisite(s):** PHI 3000 or PHI 3020

**Description:** This is a course on selected topics in social and political philosophy, typically involving issues related to justice, rights, power, democracy, class, equality, freedom, property, representation, and community. Readings may include classical and contemporary sources.

### **PHI 3180 - Feminist Philosophy**

**Credits:** 3

**Prerequisite(s):** PHI 1010 or 1030 and junior standing are recommended

**Description:** This course involves an examination of traditional philosophical topics and questions from the perspective of contemporary feminist theory. Special consideration is given to feminist critiques of logic, rationality and scientific objectivity and to feminist approaches to ethical, social, and political thought.

*Note: Credit will be granted for only one prefix: PHI or GWS.*

**Cross Listed Course(s):** GWS 3180

### **PHI 3320 - Metaphysics**

**Credits:** 3

**Description:** This course is a comprehensive survey of traditional or contemporary problems in metaphysics. Topics typically covered include free will, causation, identity, God, and substance.

### **PHI 3330 - Epistemology**

**Credits:** 3

**Prerequisite(s):** PHI 2440

**Description:** This course provides a survey of key topics in the theory of knowledge such as skepticism, propositions, justification, perception, memory, induction, other minds, and naturalism.

### **PHI 3340 - Philosophy of Race**

**Credits:** 3

**Prerequisite(s):** One upper-division course in the humanities or social sciences, or one philosophy course; or permission of instructor

**Description:** Race and racism are global phenomena that not only explain a way in which people are categorized, but the way both individuals and institutions regard one another. Most of us assume that we are members of some race (perhaps multiple races) and that sometimes that may partially determine how we are treated. This course examines philosophical writings that concern race and surveys some of the central philosophical issues regarding race and racism. Our discussions consider not only the ethical and political, but also the metaphysical and epistemological implications of ethnic and racial designations. Because of the significant variability of these issues across different parts of the globe, the readings focus on racialized groups in the United States, including both historical and contemporary authors.

### **PHI 3350 - Ethical Theories**

**Credits:** 3

**Prerequisite(s):** PHI 3000

**Description:** This is a course on selected topics in ethical theory, including those derived from normative ethics, concerning the content of moral behavior, or those derived from meta-ethics, concerning the nature of ethical reflection. Readings may include both classical and contemporary sources.

### **PHI 3360 - Business Ethics**

**Credits:** 3

**Prerequisite(s):** At least junior standing; ENG 1020

**Description:** This course investigates the value conflicts that arise in modern businesses given current circumstances. It is a major purpose of the course to prepare students to become ethical and effective business professionals. The course examines such issues as how to adjudicate between a corporation's obligations to its shareholders and its obligations to society at large and how best to insure that corporations conduct their affairs in an ethical and aboveboard manner.

**General Studies:** Arts and Humanities

### **PHI 3370 - Computers, Ethics, and Society**

**Credits:** 3

**Prerequisite(s):** One of the following: Any PHI course or any CSI course or equivalent

**Description:** The course discusses various ethical frameworks in which to consider issues that computers raise with regard to concepts of personhood, privacy, property. Additionally, it considers the wider social, legal, and political implications of computers as they pertain to the nature of work, professionalism, and the determination of risk and liability.

**General Studies:** Arts and Humanities

### **PHI 3380 - Science and Human Values: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3020

**Description:** This course is designed to serve students interested in learning about a variety of applied ethical issues arising from the rapid increases in scientific knowledge and technological ability.

Typical issues could include those associated with questions of bioethics (sometimes called medical ethics), environmental philosophy, human dignity or global ethics.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3390 - Aesthetics**

**Credits:** 3

**Prerequisite(s):** Two courses in philosophy or Permission of instructor

**Description:** A study of some basic concepts of aesthetics, focused either on a principal figure in the field (e.g. Plato, Kant, Schiller, or Nietzsche) or on a particular set of fundamental issues in aesthetics, e.g. the ontology of the work of art, intentions and originality, form and expression, criticism, aesthetic education, etc. May include an emphasis on a particular art (e.g. poetry, drama, film, jazz, or painting).

### **PHI 3400 - Philosophy of Science**

**Credits:** 3

**Prerequisite(s):** PHI 1010 and three additional hours in philosophy or Permission of the instructor

**Description:** An advanced, critical examination of the concepts and problems involved in contemporary science. The nature of scientific method, explanation, and law is covered. Physical, biological, and psychosocial sciences are investigated.

### **PHI 3410 - Eastern Philosophy: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 1040

**Description:** This course is an in-depth study of a specific thinker, such as Zoroaster, Pantajali, Sankara, or Vivikenanda; or of a pair or group of thinkers, such as Confucius and Lao-tzu; or of a recognized movement of thought or tradition, such as Theravada or Zen Buddhism; or of a concept or problem, such as karma and reincarnation; or of a genealogy of sacred texts, such as the Vedas and the Upanishads; or of a conjunction of epic texts, such as the Mahabharata and the Ramayana, as rooted in primarily the Eastern or Near Eastern context.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3420 - Special Topics in Logic and Language: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 2440 or PHI 3120 recommended

**Description:** This course covers variable topics in the area of logic and language. Such topics might include, for example, set theory, model theory, proof theory, decidability or modal logic, on the logic side, or an in-depth consideration of theories of reference, definite descriptions and proper names, conversational implicature, pragmatics, or natural language processing, on the language side.

*Note: This course may be repeated for credit up to four times under different topics.*

### **PHI 3430 - Philosophy of Law**

**Credits:** 3

**Prerequisite(s):** One upper-division course in the humanities or social sciences, or one philosophy course; or permission of instructor

**Description:** This course examines some of the conceptual foundations of law and some of the larger and smaller controversies in the philosophy of law.

### **PHI 3450 - Human Nature and Conduct: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3000 or PHI 3020

**Description:** This variable topics course examines philosophical writings on the topic of human nature and/or concerns a critical investigation of social structures and cultural institutions that rely on some concept of human nature (either explicitly to implicitly). Possible themes may center around issues such as life and death, embodiment, nature vs. convention, responsibility, solitude and community, or personhood; alternately, the course may consider the ethical and social thought of an individual thinker, such as Dewey, Freud, or Habermas, or a school or movement, such as Stoicism, British Idealism, or the conservative tradition, with an emphasis on human nature and/or society.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3480 - Histories of Desire: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 1030

**Description:** This variable topics course contends with philosophical issues relating to love, desire, gender, and sexuality in a concrete cultural context. Possible themes might center around issues such as *eros* and *thanatos*, conscience and internalization, transgression and trauma, eroticism and art, ecstasy and spirituality, sexuality and identity, the body and its modification of mortification, queer histories, the care of self, or desire in language; alternately, the course may focus on topics or problems raised by the work of an individual thinker or group of thinkers, such as Freud, Bataille, Lacan, Klein, Foucault, Deleuze, Irgaray, or Kristeva.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3500 - Advanced Humanistic Inquiry: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3000 and PHI 3020; or Permission of instructor

**Description:** This course is an interdisciplinary study of humanistic inquiry and cultural investigation, with course content drawn from the development of modern European and American culture since the Enlightenment. Special attention is given to the revolutionary transformations of ideas, institutions, structures, and forms of artistic and literary expression that characterize life in the modern world over approximately the last 250 years. Movements such as Romanticism, Realism, Decadence, Modernism, or Post-Modernism could receive special consideration.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3510 - Phenomenology**

**Credits:** 3

**Prerequisite(s):** PHI 3020 is recommended

**Description:** This course is a study of at least two major 20th century phenomenologists. Different conceptions of the nature and scope of phenomenology are critically examined.

### **PHI 3530 - Philosophy of Mind**

**Credits:** 3

**Prerequisite(s):** PHI 2440

**Description:** This course is a study of mental phenomena, including traditional problems connected with the relation of mind and body, personal identity, solipsism and the knowledge of other minds, but also contemporary issues involving consciousness, perception, thought, feeling and volition in human, animal, and artificial contexts.

### **PHI 3550 - Existentialism**

**Credits:** 3

**Prerequisite(s):** PHI 3020 is strongly recommended

**Description:** Existentialism may be characterized as a philosophical and literary impulse, a multi-sided revolt against the "leveling down" of human existence by forces of industrialization, alienation, and homogenization. In the ideologies of mass society, existentialists identify a series of threats to human freedom and to the uniqueness of the individual. This course examines several approaches to a cluster of philosophical problems, rooted in the concrete realities of human existence.

### **PHI 3570 - Hermeneutics**

**Credits:** 3

**Prerequisite(s):** PHI 3020 is strongly recommended

**Description:** Hermeneutics is the study of the principles of interpretation, and it examines how human beings experience the world as intelligible. As a practice, hermeneutics is ancient; as a modern discipline, it is first codified in the nineteenth century and beyond. This course poses and assesses fundamental questions regarding the conditions of human understanding, particularly the complex relationship of writer, text, and reader in the interpretive process.

### **PHI 3600 - Currents in American Thought: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3020

**Description:** After a brief consideration of the methodological implications of intellectual and social history, this course could consider classical figures (such as Edwards or Emerson) and influential intellectual traditions in American culture (such as Puritanism or Transcendentalism); or seemingly peripheral individuals (such as Douglass or Du Bois) and the more subterranean impulses stemming from traditionally marginalized groups of diverse ethnic, cultural, gender or sexual communities (for example, abolitionism and the problems connected with slavery, race, and gender in American culture).

*Note: This course may be repeated for credit under different topics.*

### **PHI 3610 - Religious Studies: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 1050

**Description:** This course is an in-depth study of a specific thinker, such as Paul, Augustine, Mamonides, or Barth; or of a pair or group of thinkers, such as Luther and Calvin or Buber and Rosenzweig; or of a recognized movement of thought or tradition, such as Shia or Sunni Islam; or of a particular concept or problem, such as sin and redemption; or of a genealogy of sacred texts, such as the Tanakh and the New Testament; or of a conjunction of epic texts, such as Gilgamesh and Genesis, as rooted primarily in the Western or Near Eastern context.

*Note: This course may be repeated for credit under different topics.*

### **PHI 3700 - Philosophy and the Arts: Variable Topics**

**Credits:** 3

**Description:** This course is an examination of some of the most intriguing and illuminating points of intersection between philosophy and the literary, the performing or the visual arts, including film. It may address philosophy on the arts (issues relating to ontological status, truth, interpretation, authorship, and self expression); or philosophy in the arts (literary texts, performance pieces or artistic works that explicitly invoke philosophical problems or evoke philosophical doctrines in their portrayal of social or psychological realities); or philosophy as art problems connected with meaning, representation and form in philosophical works, including across multiple media).

*Note: This course may be repeated for credit under different topics.*

### **PHI 3810 - Major Philosophers: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 3000 or PHI 3020

**Description:** This course is an in-depth study of a specific philosopher, such as Aristotle, Aquinas, Descartes, Kant, Nietzsche, or Heidegger; or a group of related thinkers, such as Plato or Plotinus, Marx and the Young Hegelians, or Wittgenstein and Austin; or a movement of thought, such as German Idealism, American Pragmatism, or Logical Positivism.

*Note: This course may be repeated for credit under different topics.*

### **PHI 4050 - Comparative Thought: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PHI 2040; PHI 3000 or PHI 3020

**Description:** Comparative thought or philosophy-sometimes called cross-cultural philosophy-is a sub field that considers a single myth, theme, topic or set of problems by comparing a plurality of sources from different streams and traditions, across cultural, linguistic, and historical boundaries. This course examines some fundamental human issues and questions from different perspectives, possibly involving a further examination of specific ideological or political viewpoints, both within and across cultures, as well. Some of the challenges to comparative work, including chauvinism, anachronism, incommensurability, and perennialism may also be discussed.

*Note: This course may be repeated for credit under different topics.*

## PHI 4100 - Senior Seminar

**Credits:** 3

**Prerequisite(s):** Completion of all General Studies requirements and senior standing

**Description:** This is a capstone course and is required of all philosophy majors. It is an in-depth consideration of a topic or author (or group of topics or authors) involving synoptic reflection, detailed interpretation and thematic synthesis, with in-class presentations and an emphasis on philosophical writing.

**University Requirement(s):** Senior Experience

## Physics

### PHY 1000 - Introduction to Physics

**Credits:** 4

**Prerequisite(s):** Minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests and high school algebra or equivalent

**Description:** An introductory survey course for nonscientists that emphasizes the main concepts of physics, including mechanics, properties of matter, heat, sound, electricity, and magnetism, light, modern physics, and relativity. The accompanying laboratory work is designed to illustrate the material discussed in the lectures.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 1020 - Physics of Advanced Materials

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** MTH 1120 or equivalent

**Description:** This course is a seminar surveying the Physics of Advanced Materials and Applications. Topics may include, but are not limited to, the application of nanotechnology to: materials and manufacturing, electronics and computing, healthcare and medicine, pharmaceuticals, chemical catalysts, and transportation.

### PHY 1250 - Physics of Aviation

**Credits:** 6

**Prerequisite(s):** MTH 1110, or MTH 1310, or equivalent

**Description:** This one-semester course introduces the fundamentals of physics through technological applications, many of which are in aerospace science. Topics include measurement, motion, temperature, heat, properties of fluids, sound, oscillations, waves, and electricity and magnetism.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2010 - College Physics I

**Credits:** 4

**Prerequisite(s):** Concurrent registration with PHY 2030 is recommended. MTH 1120 or equivalent; and completion of either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication.

**Description:** This first term of a one-year sequence covers the

fundamentals of physics in a basic but thorough manner. The experimental aspects of physics are emphasized in the classroom and in the laboratory. Considerable time is devoted to problem-solving. Course content includes measurement, vectors, kinematics, dynamics, gravitation, energy, momentum, rotational motion, properties of matter, heat, thermal properties of matter, thermodynamics, wave motion and sound. The course is algebra-based.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2020 - College Physics II

**Credits:** 4

**Prerequisite(s):** Concurrent registration with PHY 2040 is recommended; PHY 2010 and completion of either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication.

**Description:** A continuation of PHY 2010, the algebra-based introductory physics course. Topics include electricity and magnetism, electromechanical devices, AC circuits, geometrical and physical optics and modern physics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2030 - College Physics I Laboratory

**Credits:** 1

**Prerequisite(s):** Concurrent registration with PHY 2010 is recommended. MTH 1120 or equivalent; and satisfaction of either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication.

**Description:** The first semester of a one-year sequence in laboratory work that emphasizes experimental techniques, procedures and formal report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on mechanics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2040 - College Physics II Laboratory

**Credits:** 1

**Prerequisite(s):** Concurrent registration with PHY 2020 is recommended. Completion of either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication.

**Description:** This course is the second semester of a one-year sequence in laboratory work that emphasizes experimental techniques, procedures and formal report writing. Laboratory experiments are selected to reinforce or extend the work of the lecture portion of the course. Emphasis is on electrical measurements, waves, optics and modern physics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2308 - Stretch General Physics I A

**Credits:** 3

**Prerequisite(s):** MTH 1410

**Description:** This first half-term of a one-year, introductory,

calculus-based physics course is suitable for science and engineering students. The topics include motion, forces, and energy. General Studies credit, and credit for General Physics I, will be granted after completion of PHY 2309.

*Note: This course is not available to physics majors. Stretch General Physics I A (PHY 2308) is the first semester in a two semester sequence designed to give students in service classes a bit of extra time to comprehend the material. The second semester is Stretch General Physics I B (PHY 2309). Both courses are three (3) credits but only four (4) credits of general studies Natural Sciences will be granted, equivalent to taking PHY 2311, after completion of PHY 2309.*

**General Studies:** Natural and Physical Sciences

### PHY 2309 - Stretch General Physics I B

**Credits:** 3

**Prerequisite(s):** PHY 2308

**Description:** This second half-term of a one-year, introductory, calculus-based physics course is suitable for science and engineering students. The topics include motion, forces, rotation, collisions, gravity, and elasticity. General Studies credit, and credit for General Physics I, will be granted after completion of PHY 2309.

*Note: This course is not available to physics majors. Stretch General Physics I A (PHY 2308) is the first semester in a two semester sequence designed to give students in service classes a bit of extra time to comprehend the material. The second semester is General Physics I B (PHY 2309). Both courses are three (3) credits but only four (4) credits of Natural Science general studies will be granted, equivalent to taking PHY 2311, after completion of PHY 2309.*

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2311 - General Physics I

**Credits:** 4

**Prerequisite(s):** MTH 1410

**Corequisite(s):** Concurrent registration with PHY 2321 General Physics I Laboratory is recommended. Satisfaction of either ENG 1010 or the Oral Communication requirement.

**Description:** This first term of a one-year, introductory, calculus-based physics course is suitable for science and engineering students. The topics include motion, forces, rotations, gravity, and elasticity.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2321 - General Physics I Laboratory

**Credits:** 1

**Prerequisite(s):** MTH 1120 or equivalent; and satisfaction of either ENG 1009 or ENG 1010 or the Oral Communication requirement

**Corequisite(s):** Concurrent registration with PHY 2311 is recommended

**Description:** This first semester of a one-year sequence in laboratory work emphasizes experimental techniques, procedures and formal report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on mechanics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2331 - General Physics II

**Credits:** 4

**Prerequisite(s):** MTH 2410, PHY 2311 or equivalent, and completion of either ENG 1009 or ENG 1010 or the Oral Communication requirement.

**Corequisite(s):** Concurrent registration with PHY 2341 is recommended.

**Description:** As a continuation of PHY 2311, this second term of a one-year introductory calculus-based physics course is suitable for science and engineering students. Topics treated include electricity and magnetism, circuits, electromagnetic oscillations and waves, physical optics, and geometrical optics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2341 - General Physics II Laboratory

**Credits:** 1

**Prerequisite(s):** MTH 1120 or equivalent, and satisfaction of either ENG 1009 or ENG 1010 or the Oral Communication requirement

**Corequisite(s):** Concurrent registration with PHY 2331 is recommended.

**Description:** This is the second semester of a one-year sequence in laboratory work that emphasizes experimental techniques, procedures and formal report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on electrical measurements, waves, optics and modern physics.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### PHY 2620 - Sound and Music

**Credits:** 3

**Prerequisite(s):** A passing score on the mathematics pre-assessment exam

**Description:** This course considers the basic nature of sound waves, the ear and hearing, musical instruments, and acoustics. Although this course is mainly descriptive, some high school algebra is used.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GS-SC2

### PHY 2711 - Vibrations, Waves, and Mathematical Methods

**Credits:** 4

**Prerequisite(s):** PHY 2331, MTH 2420

**Description:** This course is an introduction to vibrations and waves associated with physical phenomena. A variety of mathematical methods are introduced for analysis. The topics covered include harmonic oscillators, resonance, coupled oscillators and normal modes of oscillation, standing and traveling waves in elastic media, sound waves, pulses, and dispersion.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** HON 2711

### PHY 2811 - Modern Physics I

**Credits:** 4

**Prerequisite(s):** MTH 2420 and PHY 2331

**Corequisite(s):** PHY 2821

**Description:** This is the first course of a two-course sequence which provides an introduction to modern physics. Topics include vibrations and waves, the special theory of relativity, the breakdown of classical physics, and an introduction to quantum mechanics.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** HON 2811

### PHY 2821 - Modern Physics Laboratory

**Credits:** 1

**Prerequisite(s):** PHY 2331 or the equivalent

**Corequisite(s):** PHY 2811

**Description:** Students experiment with laboratories pertinent to the course Modern Physics (PHY 2811), concentrating on experimental techniques.

### PHY 3011 - Modern Physics II

**Credits:** 3

**Prerequisite(s):** PHY 2811

**Description:** This is the second half of a two-course sequence which provides an introduction to modern physics. The concepts and formalism of quantum physics are used to allow for an understanding of the energy levels and configuration of the hydrogen atom, the strength of molecular bonds, atomic and molecular spectroscopy, solid-state physics, band theory, nuclear and subatomic physics. An introduction to quantum statistics, general relativity, and cosmology is also given.

*Note: Credit will be granted for only one prefix: HON or PHY.*

**Cross Listed Course(s):** HON 3011

### PHY 3082 - Energy and Environment

**Credits:** 3

**Prerequisite(s):** PHY 1000 or PHY 2010 or equivalent

**Description:** This course presents the supply and usage of energy resources and the environmental problems associated with our energy usage.

### PHY 3120 - Methods of Mathematical Physics

**Credits:** 3

**Prerequisite(s):** MTH 3420 and MTH 2420

**Description:** This course introduces mathematical techniques useful for solving equations commonly found in physics. Topics include methods of solving partial differential equations, special functions, and integral transforms.

### PHY 3211 - Analytical Mechanics

**Credits:** 4

**Prerequisite(s):** PHY 2711 and MTH 3420, or Permission of instructor

**Description:** This is a course in mechanics at the intermediate level. Topics include the Lagrange and Hamilton formulations, the two-body problem, rigid-body motion, and small oscillations.

### PHY 3411 - Thermal Physics

**Credits:** 3

**Prerequisite(s):** PHY 2811, MTH 3420

**Description:** This course covers the basic concepts of the three related disciplines of thermodynamics, statistical mechanics, and kinetic theory. The treatment includes both microscopic and macroscopic behavior of various classical and quantum systems of noninteracting particles and spins.

### PHY 3711 - Physics Laboratory I

**Credits:** 2

**Prerequisite(s):** PHY 2811

**Description:** This is the first term of a one-year sequence in laboratory work at the junior level. Topics include electrical measurements, electrical measuring systems, and experimental optics.

*Note: Credit will be granted for only one prefix: PHY or HON.*

**Cross Listed Course(s):** HON 3711

### PHY 3721 - Physics Laboratory II

**Credits:** 2

**Prerequisite(s):** PHY 2811

**Description:** This is a continuation of PHY 3711.

### PHY 3811 - Quantum Physics

**Credits:** 4

**Prerequisite(s):** PHY 2711, PHY 2811, MTH 3420

**Description:** This is a junior-senior level course on quantum mechanics. The postulates of quantum mechanics are introduced, and solutions to the Schrödinger Equation are developed for discrete and continuous systems in one to three dimensions. Special emphases are given to the harmonic oscillator and the hydrogen atom. The formalism of operators in quantum mechanics and the uncertainty principle are introduced. Matrix mechanics is then developed and applied to phenomena associated with angular momenta and spin, such as spin precession and nuclear magnetic resonance.

### PHY 4331 - Electricity and Magnetism

**Credits:** 4

**Prerequisite(s):** MTH 3420 and PHY 2711, or Permission of instructor

**Description:** This is a course in electricity and magnetism at the intermediate level. Topics include Maxwell's equations, boundary value problems, electrodynamics, and electromagnetic radiation.

### PHY 4440 - Electricity and Magnetism II

**Credits:** 3

**Prerequisite(s):** PHY 4331

**Description:** This course is a continuation of material presented in Electricity and Magnetism (PHY 4331) and concentrates on electromagnetic radiation. Topics include the propagation of electromagnetic waves, interference and refraction, wave guides, the emission of electromagnetic radiation from antennas, and electromagnetic fields due to accelerating point-charges. An introduction to relativistic electromagnetism is also included.

### PHY 4510 - Optics

**Credits:** 3

**Prerequisite(s):** PHY 2711 or equivalent

**Description:** This course presents a contemporary treatment of selected topics in optics, such as matrix methods in geometrical optics, the Fourier analysis approach to physical optics, and the interaction of light with matter.

### PHY 4550 - Astrophysics

**Credits:** 3

**Prerequisite(s):** PHY 2711, MTH 3420

**Description:** This course covers stellar astrophysics, solar physics, star formation, stellar evolution, processes in the interstellar medium, galactic dynamics and evolution, formation of galaxies, and cosmology.

### PHY 4560 - Planetary Physics

**Credits:** 3

**Prerequisite(s):** PHY 2811, PHY 2711, and MTH 3420, or Permission of instructor.

**Description:** This course covers the physics of formation and evolution of planetary and non-stellar bodies. It covers topics including formation theory of planets, moons and comets, celestial mechanics, planetary atmospheres, planetary geology, geomorphology and internal processes. It also covers current concepts of habitability, detection of extrasolar planets and possible astrobiology.

### PHY 4611 - Computational Physics

**Credits:** 3

**Prerequisite(s):** PHY 2711, PHY 2811, and MTH 3420, or Permission of instructor.

**Description:** This course introduces advanced methods of computational physics in a structured and cohesive manner. The course concentrates on solving complex physical problems, especially systems with no analytic solutions. Several complex physical phenomena are modeled numerically. Topics include nonlinear second-order differential equations associated with Newton's second law, partial differential equations associated with the wave equation, heat diffusion, Schrödinger's equation, Laplace's equation, and methods of fitting and analyzing data, including regression and spectral methods.

**University Requirement(s):** Senior Experience

### PHY 4630 - Continuum Physics

**Credits:** 3

**Prerequisite(s):** PHY 3120 or equivalent

**Description:** A course that presents the basic physical principles of fluid mechanics and elasticity together with their application to various problems in astronomy, physics, geology, and medicine.

### PHY 4650 - Solid State Physics

**Credits:** 3

**Prerequisite(s):** PHY 3411 and PHY 3811 or Permission of instructor

**Description:** A course in which the basic thermal and electrical properties of solids are explained in terms of the Brillouin zone structures of phonons and electrons.

### PHY 4711 - Advanced Physics I Laboratory

**Credits:** 2

**Prerequisite(s):** PHY 3711, completion of General Studies requirements, Senior standing, or Permission of instructor

**Description:** This course provides laboratory work at the advanced undergraduate level. Individual student projects are emphasized.

**University Requirement(s):** Senior Experience

### PHY 4721 - Advanced Physics II Laboratory

**Credits:** 2

**Prerequisite(s):** PHY 3711, completion of General Studies requirements, and Senior standing

**Description:** This course focuses on individual student projects in experimental physics at the advanced undergraduate level.

**University Requirement(s):** Senior Experience

### PHY 4810 - Atomic and Molecular Structure

**Credits:** 3

**Prerequisite(s):** PHY 3811

**Description:** A course in which quantum mechanical methods are applied to problems in atomic and molecular physics, such as the one-electron atom, atomic and molecular spectra, and particle scattering.

### PHY 4820 - Subatomic Physics

**Credits:** 3

**Prerequisite(s):** PHY 4810

**Description:** An introductory treatment of the various concepts and models used to describe nuclear and high-energy particle phenomena.

### PHY 4921 - Physics Senior Seminar

**Credits:** 1

**Prerequisite(s):** PHY 4711 or permission of instructor; completion of General Studies requirements and senior standing

**Corequisite(s):** PHY 4620 or PHY 4721 or permission of instructor

**Description:** This is a course in which graduating seniors report on individual projects to their peers and the department faculty.

**University Requirement(s):** Senior Experience

### PHY 4950 - General Relativity

**Credits:** 3

**Prerequisite(s):** PHY 2811, PHY 2711, and MTH 3420, or Permission of instructor.

**Description:** This course is a one semester treatment of the topics of Special Relativity, General Relativity and modern Gravitational Theory. Essential elements of Newtonian physics and Special Relativity are reviewed from previous courses and expanded upon. Mathematical tools describing the geometry of space-time are developed, and the theory of General Relativity is presented and applied to a wide variety of physical phenomena.

## Political Science

### PSC 1010 - American National Government

**Credits:** 3

**Description:** This course introduces the basic principles, institutions, actors, and processes of American National Government. It allows the student to recognize the U.S. Constitution's design and its lasting influence. It also presents some of the changing social, economic, and political variables that create powerfully new conceptions of the structure, purpose, and flow of American politics.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

### PSC 1020 - Comparative Politics

**Credits:** 3

**Description:** This course examines political societies and explores the basic ideas, structures, and issues of modern political systems in a comparative context.

*Note: Credit will be granted for only one prefix: HON or PSC.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** HON 1023

### PSC 1030 - Multicultural Politics for Non-Majors

**Credits:** 3

**Description:** In this course students develop a practical understanding of the practice of politics in the United States using the tools of Social Movement Theory. Students learn about the challenges and opportunities for political activism from the perspective of the Latinx, Native American, African American, and Asian American social movements. Students develop a political science toolkit to understand and effectively participate in an increasingly diverse American politics.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

### PSC 2020 - Conducting Political Analysis

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course inquires into research methods and deals with how we organize knowledge in the study of politics. It also emphasizes a multidisciplinary approach to political analysis by concentrating on philosophy of science, social science methodology, and historiography.

### PSC 2030 - Politics in the Media

**Credits:** 3

**Description:** This course is an analysis of political issues as portrayed in print, broadcast, and electronic media. It is designed to provide students with the background and perspective needed for an informed understanding of issues confronting the political system.

### PSC 2090 - The Black Lives Matter Movement and the Origins of Modern Black Protest

**Credits:** 3

**Description:** This course applies sociological concepts and historical themes to an analysis of the origins and nature of the Black Lives Matter (BLM) movement. The course begins with brief coverage of black resistance in the colonial period to the Abolitionist Movement but provides an in-depth exploration of modern black protest in the post-World War II civil rights decades and continues into the late 20th century with high-profile instances of police brutality. The remainder of the course follows a chronology, beginning in 2013 with the creation of #BlackLivesMatter and the growth of a new era of black protest. In addition to high-profile incidences of police brutality, attention is given to movement dynamics as shaped by Internet social media platforms and cable news. The course also addresses the #SayHerName movement, which has highlighted police violence against black women. Issues concerning misogynoir are also covered, including black radical feminist critiques of black male patriarchy, and debates within the black community about the movement's focus. Finally, students will come away with a broad understanding of what systemic institutionalized racism is, as distinguished from incidences of racial violence by individual acts of terrorism or white supremacist terrorist organizations.

*Note: The course is crosslisted. Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 2090, HIS 2090, SOC 2090

### PSC 2200 - Politics and Black People

**Credits:** 3

**Prerequisite(s):** Completion of the General Studies requirement in Quantitative Literacy and either ENG 1009 or ENG 1010 or the General Studies requirement in Oral Communication.

**Description:** Black politics is examined as a vehicle and potential in decision making for positive change for Black people in this country. The realities and the challenges, both historical and current, are emphasized.

*Note: Credit will be granted for only one prefix: PSC or AAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 2200

### **PSC 2230 - Introduction to International Relations**

**Credits:** 3

**Description:** This course introduces students to the discipline of international relations with a general survey of the theories and issues of relations between nation states, states and non-state actors. Issues covered in this course include the causes of war, conflict, and the pursuit of peace in the international system.

*Note: Credit may be granted for only one prefix: HON or PSC.*

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS1

**Cross Listed Course(s):** HON 2230

### **PSC 2240 - Global Challenges in the Twenty-First Century**

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on the reading and writing placement tests.

**Description:** This interdisciplinary course focuses on seven areas expected to have a revolutionary effect on the world in the coming decades: Population, Resources, Technology, Information, Economic Integration, Security and Conflict, and Governance. The course develops the significance of each of these issues and explores the relationships among them.

**General Studies:** Social and Behavioral Sciences, Global Diversity

### **PSC 3000 - American State and Local Government**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or Permission of instructor

**Description:** The organization, powers, functions, and practical workings of state, county, town, and city governments of the United States. Special attention is given to federal-state relations and to the Colorado state government and constitution.

### **PSC 3010 - Urban Politics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course introduces students to a variety of aspects of governing, politics and policy that occur within urban settings in the United States. To do so, the course focuses on the unique aspects of politics and policies that mark city politics. These unique aspects of urban politics include constraints on behavior as cities compete over people and resources, a rich cultural and racial diversity, crime, education, poverty, and many other issues that are pronounced within cities, and are thus uniquely dealt with through city politics.

### **PSC 3020 - Introduction to Public Administration**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** An introduction to public management as a field of study and professional practice. Topics include the political environment of public administration, organization theory, decision-making, budgetary processes, intergovernmental relations, and ethics and professionalism in public service.

### **PSC 3050 - Political Theory**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** Examination of Western political ideas and ideals from Plato through Marx: the hopes and fears, questions and responses, dreams and realities about the state, humanity, justice, and politics. An opportunity to relate historical political thinking to modern problems.

### **PSC 3090 - Current Topics in Political Science: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** An in-depth study of an important topic of political science.

*Note: Topics vary and the course may be repeated for credit as the topics change.*

### **PSC 3100 - American Political Parties and Elections and Voting Behavior**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course considers the nature and functions of parties in the U.S. political system: their membership, beliefs and internal organization. It examines campaign methods and financing, and analyzes the American voter and nonvoter, based on the latest research findings.

### **PSC 3110 - Federal Indian Law**

**Credits:** 3

**Prerequisite(s):** NAS 1000

**Description:** This course addresses the legal and political relationship between the United States and American Indians. Students will study the major doctrines in Federal Indian Law, including the doctrines of Discover, Trust, Sovereignty, and Plenary Power with provide the legal/political basis for the U.S. and American Indian relationship. The course also provides a critical examination of current topics such as the continued political control exercised by the U.S. Government over Native American Nations and the meaning of Sovereignty in the context of U.S. and Native Nations.

*Note: Credit will be granted for only one prefix: NAS or PSC.*

**Cross Listed Course(s):** NAS 3110

### **PSC 3120 - American Constitutional Law**

**Credits:** 3

**Prerequisite(s):** PSC 1010 and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course examines how the basic principles and doctrines of the Constitution have been interpreted, altered, and

applied in response to the ever-changing social, economic, and political conditions in the United States.

### **PSC 3130 - The American Presidency**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course addresses the powers and functions of the presidency as the office has changed and evolved, with emphasis on recent experience. It explores styles of presidential leadership, relations with Congress, the bureaucracy, the media, the group influence and constituent relations. It examines internal organization, traditions, power structure and reform.

### **PSC 3140 - The American Congress and Legislative Process**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course explores the powers and functions of the legislative branch of government; relations with the executive branch; interest group influence; constituent relations. It examines internal organization, traditions, power structure and reform.

### **PSC 3150 - Law and Society**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020

**Description:** In this course, students critically examine the American judicial system and the legal process. Students analyze the historical development and current organization of the judicial system, the major actors in the system, trial and appellate processes, and judicial decision-making.

### **PSC 3160 - Readings in Political Science and Public**

**Administration: Variable Topics**

**Credits:** 1-3

**Description:** This course provides the opportunity for the student to explore important writings in a selected subject area of political science. It is a self-paced course under the guidance of the instructor.

*Note: Topics vary and the course may be repeated for credit.*

### **PSC 3170 - Leadership Studies**

**Credits:** 3

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This class focuses on the modern development of leadership studies, from the cornerstone study by James MacGregor Burns in 1978 to the present. The course highlights the debates surrounding the search for a general theory of leadership, the role of values in the study of leadership and the value of leadership itself. A variety of perspectives are presented on the topics covered.

### **PSC 3200 - Native American Politics**

**Credits:** 3

**Prerequisite(s):** NAS 1000 or PSC 1020 or Permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** The focus of this course is to examine Native Americans as political beings. Important questions and strategies for understanding the rise and expansion of Native politicization will be identified. In general, the students will be able to explain why, how, and when movements that demand change emerge. By comparing and contrasting the Native American experience with other powerless groups in society, the students should be able to trace the historical and political factors that led to a change in the movement of insurgency and analyze the specific actions by insurgents that inevitably resulted in the failure or success of those specific actions.

*Note: Credit will be granted for only one prefix: PSC or NAS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** NAS 3200

### **PSC 3220 - Public Policy**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course is an analysis of the ongoing development of government policy, covering the main stages of the policy process: agenda building, formulation, authorization, implementation, and evaluation.

### **PSC 3230 - Environmental Politics**

**Credits:** 3

**Prerequisite(s):** PSC 1010, PSC 1020 or Permission of instructor

**Description:** The class will explore the political and administrative issues in the field of environmental politics. Environmental areas to be reviewed will include environmental theory, organizations, political behavior, assessment, law, and decision-making.

### **PSC 3240 - Intergovernmental Relations**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or Permission of instructor

**Description:** This course is an analysis of the functioning of the American federal system and the changing forms of local/state/federal relationships. It surveys recent efforts to develop theories relating to the administrative processes of intergovernmental relations.

### **PSC 3250 - Policy Analysis and Program Evaluation**

**Credits:** 3

**Prerequisite(s):** MTH 1210; or permission of instructor

**Description:** This course focuses on the research design and quantitative methods used in conducting policy analyses and program evaluations in the public sector. Emphasis is on the application of quantitative data analysis to public policies and programs.

### **PSC 3260 - Politics of Budgeting**

**Credits:** 3

**Prerequisite(s):** PSC 3020 or Permission of instructor

**Description:** Budget systems analyzed with an evaluation of administrative techniques of budget control. The legal, social, and political aspects of governmental budgets and the budgetary process.

### **PSC 3280 - Public Personnel Administration**

**Credits:** 3

**Prerequisite(s):** PSC 3020 or Permission of instructor

**Description:** This course is an analysis of managing, motivating and developing people in public organizations. Surveys the main elements of personnel administration such as selection, evaluation, promotion, training, productivity and job classification.

### **PSC 3300 - Indigenous Geographies of North America**

**Credits:** 3

**Prerequisite(s):** GEG 1300 or NAS 1000 or PSC 1010 or junior or higher standing

**Description:** In this course, we examine Indigenous Peoples' relationships to land and power in North America with a focus on the United States. Colonial legacies of dispossession, genocide, and the reservation system frame how we discuss and interpret physical and symbolic violence against Indigenous Peoples. We begin with a historical geographic exploration of Indigenous land use patterns and how European arrival and invasion radically destabilized Native cultures. U.S. government policies and actions including the establishment of reservations and Tribal governments illustrate how institutions shape contemporary political, economic, social, cultural, and environmental relationships. Contemporary issues such as natural resource extraction, economic development, intersectionality, and cultural resilience influence the experiences of Native Americans on and off reservations.

*Note: Credit will be granted for only one prefix.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** GEG 3300, NAS 3300

### **PSC 3310 - American Foreign and Military Policy**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or Permission of instructor

**Description:** This course examines the main trends of U.S. foreign and military policy from the end of World War II to the present, with an exploration of the motives and perceptions behind recent policies and actions. Studies the policymaking process and the relationship between foreign policy and domestic policies.

### **PSC 3320 - International Law**

**Credits:** 3

**Prerequisite(s):** PSC 2230

**Description:** This course examines past and present efforts of nations to regulate their relations and resolve conflicts through the use of existing legal doctrine, or the development of new law in response to new problems, such as the uses of outer space and ocean resources.

### **PSC 3330 - International Organizations**

**Credits:** 3

**Prerequisite(s):** PSC 2230

**Description:** This course examines the theory and practice of international organizations, with emphasis on the United Nations. Past and present attempts of nations to solve problems or achieve security by means of regional and global organizations, such as the Common Market and the World Bank are addressed.

### **PSC 3340 - International Political Economy**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020; ECO 1040 or ECO 2010 recommended

**Description:** This is a survey course of the major issues and themes of international political economy. It covers the basic theoretical orientations and the international institutions that structure the international economy. It provides students with all the necessary background to understand the intersection of economics and politics in the international system.

*Note: Credit will be granted for only one prefix: HON or PSC.*

**Cross Listed Course(s):** HON 3340

### **PSC 3350 - Global Issues Forum: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020

**Description:** This is a variable topics course in which students explore a particular contemporary issue in global politics with a combination of in-class and online content, as well as with an experiential learning component. Specific issues will vary but will focus on understanding the issue in an international and/or comparative political context. This class includes a service-learning component where students will have the opportunity to apply the material from class in a real-world setting under the direction of the instructor.

*Note: This class may be repeated for different content for up to 6 elective credits in the Comparative Politics/International Relations major concentration.*

*Some sections of this course may be taught as Service Learning.*

### **PSC 3360 - Advanced Problems in International Relations**

**Credits:** 3

**Prerequisite(s):** PSC 2230

**Description:** This class analyzes the various policy challenges within a globalized international system, with an emphasis on the application of theoretical perspectives to these problems. Courses offered as Advanced Problems in International Relations consider a particular issue within the international system and the theoretical perspectives that may help us to understand this problem.

*Note: Students may repeat this course under different topics for up to 6 semester hours.*

### **PSC 3365 - Structural Violence, Poverty and Human Rights**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** In this course, students apply a structural violence framework to make visible the power inequalities that result in producing and reproducing injustices and violations of socioeconomic rights. The use of ethnographic case studies allows students to explore a human rights-based approach to collective actions for justice. Through group discussion, analysis, and workshops, student learn to take political responsibility for injustices beyond those we individually witness or experience.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** ANT 3365, GWS 3365

### **PSC 3379 - Middle Eastern Cultures**

**Credits:** 3

**Prerequisite(s):** ENG 1020 or ANT 1310 or PSC 1020

**Description:** This course introduces students to various aspects of Middle Eastern cultures, including family life, marriage, kinship, religious practices, communal, ethnic, class, and gender identities. Using anthropological approaches of holism and cultural relativism to studying cultures, the course highlights the region's diverse ethnic, religious, linguistic and economic groups, its visual, popular, national, gender, and social cultures, and how colonial history and foreign powers have influenced it using ethnographic case studies and cultural histories from Afghanistan, Bahrain, Egypt, Iran, Israel, Israel, Jordan, Kuwait, Lebanon, Oman, Pakistan, Palestine, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates, and Yemen.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Cross Listed Course(s):** ANT 3379

### **PSC 3400 - Contemporary Africa**

**Credits:** 3

**Description:** This course focuses on the political, social and economic realities of post independence Africa. Africa's relations with the outside world and the question of South Africa are also examined in this course.

*Note: Credit will be granted for only one prefix: PSC or AAS.*

**Cross Listed Course(s):** AAS 3400

### **PSC 3520 - American Political Thought**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or Permission of instructor

**Description:** Is there an American political philosophy? This course is a study of some of the significant individuals and ideas that have shaped and are shaping political thinking in America.

### **PSC 3530 - Gender and Global Politics**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020

**Description:** This course introduces students to the application of feminist theorizing of international relations to critical global issues. The first part of the course examines feminist international relations theory to ascertain how gender reinforms global politics. The second part of the course examines a variety of global issues, such as war,

global economic relations, human trafficking, and the environment, to see how the ways we understand, and therefore construct policies to deal with these issues, are gendered.

*Note: Credit will be granted for only one prefix: GWS or PSC.*

**Cross Listed Course(s):** GWS 3530

### **PSC 3540 - Women in the Developing World**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSC 1020 or ANT 1310

**Description:** This course presents a cross-cultural study of women's lives in the developing world by examining two main issues: the influence of culture on women's issues and politics' impact on women. By the end of this course students will not only learn about the lives of women in the developing world but also become familiar with how women across the globe articulate the desire for equality.

*Note: Credit will be granted for only one prefix*

**Cross Listed Course(s):** ANT 3540, GWS 3540, HON 3540

### **PSC 3600 - Comparative Politics Area Studies: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020 or Permission of instructor

**Description:** This course is a thorough examination of the political system or systems of a selected foreign nation or geographical region, such as the Middle East, Western Europe, or Latin America.

*Note: Subject matter varies and the course may be repeated for credit.*

### **PSC 3630 - Latin American Politics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or 1020 and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course will provide the student with the core concepts used within the social science literature in Latin American countries; will broaden intellectual horizons beyond United States borders to question ethnocentrism regarding what is means to be developed; and will examine the causes, processes, and outcomes of revolution and social conflict.

### **PSC 3640 - Regional Defense and Development: East Asia**

**Credits:** 3

**Prerequisite(s):** PSC 1020

**Description:** This course surveys the developmental and security issues in East Asia arising from the rise of China as an economic and political powerhouse. The course takes a comparative approach to understanding China's interests and actions in the region and provides students with the tools necessary to understand the role of China as an international actor in the 21st century.

### **PSC 3670 - European Politics**

**Credits:** 3

**Prerequisite(s):** PSC 1010 or PSC 1020

**Description:** This course examines the states of Europe with a

concentration on the major theoretical, empirical, and substantive issues in contemporary European political systems. The European Union is also addressed in detail. Students explore how political events in Europe affect the relationship between the United States and Europe. The comparison between political life in the United States and Europe is discussed throughout the semester.

### **PSC 3800 - On Leaders and Leadership**

**Credits:** 3

**Description:** There are questions about leaders and leadership that have emerged in a variety of contexts throughout the human experience. This course examines those questions by focusing, first, on the general issues connected to leaders and leadership, and, then, by analyzing the role of leaders and the operation of leadership in the organized political world. Such a comparison highlights the similarities and the differences that exist between broad concepts of leadership and the actual practice and meaning of leadership in politics.

### **PSC 3910 - African Politics and Government**

**Credits:** 3

**Prerequisite(s):** AAS 1130, AAS 2300, or Permission of instructor  
**Description:** This course will survey present-day political systems in Africa and examine factors, internal and external, that have contributed to their emergence.

*Note: Credit will be granted for only one prefix: PSC or AAS.*

**Cross Listed Course(s):** AAS 3910

### **PSC 3980 - Internship in Political Science**

**Credits:** 1-15

**Prerequisite(s):** Major in Political Science; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **PSC 4020 - Special Studies**

**Credits:** 3

**Prerequisite(s):** PSC 1010, PSC 1020, completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy, and Senior standing

**Description:** This course is an in-depth examination of a selected subject within the overall field of political science. It provides students with an opportunity to delve into a subject that the instructor has a special interest or knowledge, but is not specifically covered in

any of the existing courses.

*Note: Course content will vary and may be variable depending on subject. The course may be repeated for credit as the subject matter changes.*

**University Requirement(s):** Senior Experience

### **PSC 4240 - Women and Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or PSC 1020 or SOC 1010 or permission of instructor

**Description:** Students analyze key patterns and trends in violence perpetrated by and against women, with special focus on the diverse experiences of women in the United States. Students will investigate historical, contemporary, sociopolitical, and cross-cultural patterns in causal factors, perpetuation, prevention, intervention and treatment relative to violence and women. Topics will include sexual violence, domestic violence, family violence, cyber-violence, women in prison, women on death row, and women as victims of violence, among others.

*Note: Credit will be granted for only one prefix: CJC, GWS, PSC, or SOC.*

**Cross Listed Course(s):** CJC 4240, GWS 4240, SOC 4240

## **Professional Studies**

### **SPS 4500 - Teaching Assistantship in the College of Professional Studies**

**Credits:** 3

**Prerequisite(s):** 15 semester hours of coursework in major; junior or senior standing; permission of faculty member and department chair

**Description:** This course provides undergraduate students with an experience as a teaching assistant in courses offered through academic departments within the School of Professional Studies. Under close faculty supervision, this course provides training and support for students to learn about higher education pedagogy and processes in teaching courses within the student's selected major. Students will put into use what they learned in previous major courses to assist other students enrolled in the major courses. The experience includes seminar meetings, along with additional hours of application each week using students' content knowledge and developing pedagogical skills.

## **Psychology**

### **PSY 1001 - Introductory Psychology**

**Credits:** 3

**Description:** This course presents basic concepts, principles, and methods involved in the scientific study and understanding of human behavior. Attention is given to organic bases of human and other animal behavior with emphasis on the scientific method, behavioral neuroscience, sensation and perception, learning, cognition, personality, mental health, social behavior, and developmental processes. This course is required for all psychology majors and minors.

**General Studies:** Social and Behavioral Sciences  
**Guaranteed Transfer:** GT-SS3

### **PSY 1800 - Developmental Educational Psychology**

**Credits:** 3

**Description:** This course focuses on concepts, principles, and methods by which all humans develop psychologically and how these factors can be used to better understand how infants, children, and adolescents learn. Students will learn about milestones of child development (physical, social-emotional, cognitive) from birth to adolescence, and the influence of the family, peers, and school on development during the preschool and elementary school years. Students will conduct observations of children and the learning/teaching process in classrooms to practice applying course concepts.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **PSY 2001 - Careers and Professional Development in Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course provides students with an overview of careers and opportunities in the field of psychology. Topics include the sub-specialties and professions within psychology, career options for psychologists, and graduate school and/or bachelor's level employment. Students learn the differences between psychology sub-specialties and the educational requirements for entering different specialties. In addition, students learn professional skills such as creating a resume, creating a personal statement, using professional etiquette, searching research databases, and writing in APA style.

### **PSY 2120 - Brain and Behavior**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course provides an introductory overview of the brain and its role in behavior from a psychological perspective. Topics discussed may include drugs, perception, brain injuries, mental illness, and cognition. An understanding of how the brain directs both normal and abnormal behavior is used to investigate current topics.

### **PSY 2150 - Positive Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course introduces students to the field of Positive Psychology, the scientific study of optimal living. Relevant psychological theory and research will be used to explore topics including: happiness, positive emotions and cognitions, goal-setting, character assessment, health, love and interpersonal relationships, applications to social institutions, positive psychotherapy, and positive psychology interventions.

### **PSY 2210 - Psychology of Human Development**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course presents the development of behavior from conception through maturity and death and is intended to help the student understand the developmental characteristics of different age groups and the determinants of their individual and collective behaviors.

### **PSY 2240 - Parenting Across the Lifespan**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course is designed to help students understand the role of parents, developmentally appropriate expectations, and how cultural variations influence parenting. Students learn specific parenting techniques from a variety of approaches including how to implement them. The emphasis is on research-based information.

### **PSY 2270 - Death and Dying**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course reviews the psychological aspects of death and dying throughout the lifespan. It covers how individuals cope with their own or others' mortality, from infancy through aging. Emphasis is placed on common causes of death, decisions concerning death, stages in the death process, psychotherapy with the dying person and family members, and psychological as well as cross-cultural interpretations of death and dying rituals.

### **PSY 2310 - Statistics for the Social and Behavioral Sciences**

**Credits:** 3

**Description:** This course exposes students to statistical measurement and analysis in the social and behavioral sciences, including descriptive statistics, probability, sampling distributions, t-tests, ANOVA, and correlation. The course requires students to learn how to interpret and report output using appropriate APA format.

### **PSY 2330 - Statistics and Research Methods for the Social and Behavioral Sciences I**

**Credits:** 3

**Description:** This course is an introduction to statistics and research design used in the behavioral sciences. Topics covered will include: frequency distributions, probability, measures of central tendency, hypothesis testing, t-tests, computations, statistical decision making, basic research methods, variables use in research, populations and sampling. A focus will be placed on understanding how statistical procedures are applied to basic research questions.

### **PSY 2340 - Statistics and Research Methods for the Social and Behavioral Sciences II**

**Credits:** 3

**Prerequisite(s):** PSY 2330

**Description:** This is a continuation of PSY 2330. This course will cover issues in research that include APA Ethics Code, validity and

reliability, and the application of statistics to various experimental designs. Designs discussed include correlation, ANOVA and Chi-Square. Students learn how to interpret and report output from SPSS statistical software using appropriate APA format.

### **PSY 2410 - Social Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course covers the major topics, theories, methods, and applications of social psychology. Topic areas include research methodology, person perception, attraction, helping behavior, aggression, attitudes, persuasion, group processes, and intergroup relations. Both classic and recent works are discussed.

### **PSY 2850 - Psychology of Sexuality**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course is a survey of human sexual functioning, and covers sexual anatomy and physiology, the biological and environmental influences on the development of sexuality and sex roles, and the interface of human psychological functioning with sexual identity and behavior. Topics covered include sex research, sexual health, gender development, sexual orientation, sexuality across the lifespan, sexual variation and deviation, sexual dysfunction, intimate relationships, legal and ethical aspects of sexuality.

### **PSY 2950 - Contemporary Issues: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** Courses included under this umbrella deal with issues of personal importance to students, with an emphasis on applying psychological principles and knowledge to contemporary questions, rather than mastery of an academic content area in psychology. Course content will vary, and the course may be repeated twice with different topics for a maximum of nine hours.

### **PSY 3000 - Theories of Personality**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** Students will learn the major contemporary theories of personality. The course will consider the following perspectives on human behavior and mental processes: psychodynamic, behavioral and cognitive behavioral, humanistic, trait and factorial, and neurobiological. The underlying assumptions and research support for these theories will be examined.

### **PSY 3010 - Research Methods in Psychological Science**

**Credits:** 3

**Prerequisite(s):** PSY 2310

**Description:** This course provides an introduction to the fundamental principles and procedures of research in psychological science. Students gain knowledge in research ethics, basic sampling

procedures, measurement, and research design. This course is to be taken concurrently with or prior to PSY 3011 - Laboratory for Research Methods in Psychological Science .

### **PSY 3011 - Laboratory for Research Methods in Psychological Science**

**Credits:** 1

**Prerequisite(s) or Corequisite(s):** PSY3010

**Description:** This course is the laboratory that accompanies PSY 3010 Research Methods in Psychological Science and engages students in activities that reinforce the concepts of PSY 3010. The course provides hands-on experience with fundamental research methods in psychological science. Exercises include collecting, analyzing, and reporting psychological data.

### **PSY 3030 - Multicultural Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course examines theories of difference and their application to behavior. Diversity across race/ethnicity, gender, class, and sexual orientation is explored. A significant portion of the coursework is directly devoted to African American, Asian American, Hispanic/Latina(o), and Native American identity development.

**University Requirement(s):** Multicultural

### **PSY 3050 - Psychology of Gender**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course presents a survey of major contemporary approaches to gender, including a range of scientific and theoretical work. A constructionist approach is utilized to synthesize the views. The course then reviews several major areas of application, including relationships, health, violence, workplace, and achievements.

*Note: Credit will be granted for only one prefix: PSY or GWS.*

**Cross Listed Course(s):** GWS 3050

### **PSY 3070 - Psychology of Sexual Orientation**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course explores psychological theory and research dealing with sexual orientation, with an emphasis on lesbian, gay, and bisexual (LGB) identity. Topics include historical and theoretical frameworks, homophobia and heterosexism, origins of sexual orientation, LGB identity development and coming out, diversity, relationships and parenting, the role of community, and others.

*Note: Credit will be granted for only one prefix: PSY or GWS.*

**Cross Listed Course(s):** GWS 3070

### **PSY 3170 - Social Justice: Self and Citizenship: A Service Learning Course**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or PSY 1001 and six additional semester

hours in Women's Studies or six additional semester hours in Psychology

**Description:** Social justice encompasses research, activism and current events about manifestations of social oppression and social change. This course focuses upon psychological theory and self-identity in the context of multicultural and social justice issues (e.g., classism, racism, sexism, heterosexism, and ableism). Lectures, readings, and discussions are integrated with a required service learning placement involving 30 hours of volunteer work in a setting for the underserved. Students have the opportunity to a) reflect on their values, assumptions, place within, and emotional reactions to social oppressions; b) analyze the political systems that surround their communities and institutions; and c) apply their reflections to their career goals and personal development.

*Note: Credit will be granted for only one prefix: HON, PSY, or GWS. Some sections of this course may be taught as Service Learning.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** HON 3170, GWS 3170

### PSY 3240 - Infancy

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** The focus of the course is development during the infancy period, from birth to approximately 3 years of age. Key themes are genetic as well as prenatal influences on infant development, the major theories of child development, and research related to infant behavior. The course will emphasize the physical/biological, cognitive, and social emotional aspects of development during this period.

### PSY 3250 - Child Psychology

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course covers the major theories of child development and research related to child behavior. A social science emphasis is placed on prenatal, physical, social, cognitive, emotional, language, and psychological development of typically-developing children.

### PSY 3260 - Psychology of Adolescence

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course covers the major theories of adolescence and research related to adolescent behavior. The physical, cognitive, and social/emotional developments of this period will be emphasized, including the influences of peers, parents, and schools. Problems and concerns specific to adolescent development will also be discussed.

### PSY 3270 - Adulthood and Aging

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course is a developmental study of the adult from young adulthood throughout the remainder of life. The course will provide a broad overview of emotional, behavioral, social, physical,

and intellectual changes that occur during adulthood. Both theories and research findings will be emphasized; applications will be included.

### PSY 3340 - Cognitive Development and Learning

**Credits:** 3

**Prerequisite(s):** PSY 1800 or PSY 3250 or PSY 2270 or SOC 3100

**Description:** This course is designed to examine human cognitive development and learning. Topics include the major theories of cognitive development and how they can be applied to teaching children, adolescents, and adults. The roles of motivation, problem solving and intelligence in learning and cognition also will be explored. Additionally, this course will investigate how cognitive theories can be applied to teaching literacy acquisition, scientific and mathematical skills.

### PSY 3350 - Psychology of Social Development

**Credits:** 3

**Prerequisite(s):** PSY 1001 or PSY 1800

**Description:** Several important aspects of social, emotional, and personality development across childhood into adolescence will be critically examined. Topics pertain to the development of behavior (e.g., aggression, helping), social cognition (e.g., achievement motivation, person perception), emotion (e.g., expression, temperament) and relationships (e.g., peers, family).

### PSY 3370 - Undergraduate Research Assistant

**Credits:** 3

**Prerequisite(s):** PSY 2310 or PSY 2330; and permission of department

**Description:** Students will work with individual faculty members to hone the student's research and writing skills. Students will assist in conducting research under the direct supervision of a faculty member. Within this context, students will develop the skills necessary to conduct research, will explore methods of measurement and data collection, and will employ analytic tools that will enable them to perceive relationships and patterns. They will synthesize bodies of knowledge to develop a deeper understanding of the topic under investigation. Course work will culminate in the synthesis and dissemination of project results.

*Note: Departmental permission is required to enroll in this course, and it may be repeated once for a maximum of six hours of credit.*

### PSY 3380 - Clinical Neuropsychology

**Credits:** 3

**Prerequisite(s):** PSY 1001 and (PSY 2120 or BIO 1000 or BIO 1030 or BIO 1080) and junior status

**Description:** This course covers the history of neuropsychology; the assessment of organic and nonorganic brain damage; and the causes, assessment, behavioral outcomes, treatment, and prognosis of various brain disorders and diseases.

### PSY 3390 - Undergraduate Teaching Assistant Training

**Credits:** 3

**Prerequisite(s):** PSY 1001 and permission of instructor

**Description:** Students will serve as a teaching assistant for a specified course under the direct supervision of the instructor. Students need to have already taken the course for which they will be serving as a teaching assistant. The use of various pedagogical theories, methods, strategies, and ethical principles relevant to the teaching of psychology will be explored. Students will develop the skills necessary to create, as well as implement, a variety of course materials, learning assessment tools, and grading procedures. Professional development as it relates to the scholarship of teaching will be emphasized. Departmental permission is required to enroll in this course, and it may be repeated once for a maximum of six semester hours of credit.

### **PSY 3400 - Child Psychopathology**

**Credits:** 3

**Prerequisite(s):** PSY 1800, or PSY 2210 or PSY 3240 or PSY 3250 or PSY 3260 or PSY 3620

**Description:** This course explores child (infant, early childhood, and adolescent) psychopathology from a developmental perspective, recognizing that pathology expresses itself in different ways at different ages and stages of development. Concepts such as risk and resilience and etiological trajectories are emphasized, with a review of the major types of psychopathology seen in infants, children, and adolescents. This includes: learning disabled, intellectually developmentally disabled, physically impaired, chronically ill, emotionally disturbed, and neurologically impaired individuals including those with mood disorders, anxiety disorders, autism spectrum disorders, and ADHD.

### **PSY 3410 - Health Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course examines how biological, psychological, and social factors interact with and affect health behaviors. Topics include the promotion of health; prevention, management, and treatment of illness; experience, treatment, and consequences of stress and pain; and experience, coping, and treatment of chronic health problems. The course also addresses the healthcare system and its implications for patient-practitioner interactions and health outcomes.

### **PSY 3420 - Issues in Social-Personality Psychology: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSY 1001; PSY 2160 or PSY 2410 or PSY 3000

**Description:** This course entails in-depth consideration of specific areas and issues in contemporary social psychology and personality theory. Emphasis will be on exploration of current theory, research, and applications.

*Note: Course content will vary, and course may be repeated twice with different topics for a maximum of nine credit hours.*

### **PSY 3440 - Cravings and Addictions**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course offers a multidisciplinary analysis of a broad range of addictive disorders, including alcohol or other drugs, and a spectrum of behavioral disturbances, including excessive eating, exercising, gambling, and risk taking. Emphasis is placed on contemporary strategies for prevention, early intervention and treatment.

### **PSY 3450 - Organizational Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** Organizational Psychology is a comprehensive survey course, applicable to any student whose career places them in an organization. Content includes approaches to organizational structure, culture, and change; organizational behavior such as leadership, teamwork, conflict, power, management strategies, feedback and communication styles; personnel selection and appraisal; theories of motivation and performance; and diversity and its impact on the changing organization in the global context.

### **PSY 3460 - Psychology of Play**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or PSY 1800

**Description:** This course covers the role of play in child development. Students learn about historical and cross-cultural perspectives of play, developmental changes in play from infancy through adolescence, theories of play, and how adults can facilitate physical, cognitive, and social-emotional growth through play.

### **PSY 3470 - Psychology of Violence and Aggression**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course provides an in-depth overview of contrasting theoretical approaches to the explanation, prediction, and control of violent and aggressive behaviors, including psychobiological, radical behaviorism, social learning, cognitive social learning, and psychopathological approaches. Specific behavioral foci include youth violence, criminal violence, inner-city gang violence, white-collar aggression, combat, terrorism, sexual violence, self-mutilation, etc., from both legal and psychological perspectives. This course explores socialization systems leading to the development of aggressive and violent behavioral tendencies and factors facilitating the maintenance of these dispositions. Prevention and intervention strategies are considered.

### **PSY 3490 - Child Life Theory and Practice**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or PSY 1800

**Description:** This class covers the theoretical and practical aspects of a child life specialist practice. Students learn about the history and scope of this profession, including how it fits into current healthcare models. Developmental theory is applied to elucidate how injury, illness, and healthcare impact children and families. Practical skills

concerning how to apply developmentally-appropriate interventions within the patient- and family-centered model are reviewed. This includes applications of play therapy and other evidence-based interventions. Students also learn about guiding principles and ethical standards for child life specialist professionals.

### **PSY 3500 - Research Issues: Variable Topics**

**Credits:** 3

**Prerequisite(s):** PSY 1001; PSY 2310 or PSY 2330; or permission of instructor

**Description:** This course presents an in-depth consideration of current areas and issues in experimental psychology, focusing on the scientific investigation of various aspects of psychological functioning.

*Note: Course content will vary, and the course may be repeated twice with different topics for a maximum of nine hours of credit.*

### **PSY 3540 - Cognitive Aging**

**Credits:** 3

**Prerequisite(s):** PSY 1001; and 3 hours upper-division psychology coursework; or permission of instructor

**Description:** This course will cover theoretical and empirical explorations of the effect of aging on cognition. The course will cover the impact of normal aging on individual's ability to remember and use knowledge. Topics will include the impact of aging on working memory, attention, executive functioning, long-term memory, reasoning, decision making, and dementia. The course will also cover research investigating whether and how functional cognitive capacity can be maintained as individuals age.

### **PSY 3560 - Psychopharmacology**

**Credits:** 3

**Prerequisite(s):** PSY 1001 and (PSY 2120 or BIO 1000 or BIO 1080 or BIO 1081) and junior standing

**Description:** This course provides the foundation for understanding the basic mechanisms of drug action, specifically how drugs are delivered and removed from their sites of action. The pharmacological features of different classes of drugs and the ways in which drugs produce their biological effects are discussed. Pharmacodynamic and pharmacokinetic principles are explored through a study of both therapeutic drugs and recreational drugs. A review of regulatory and governmental control issues is included.

### **PSY 3620 - Abnormal Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course examines and evaluates the major theories of abnormal behavior: biological, behavioral, cognitive, and sociocultural. The course provides a description of the cognitive, behavioral, and emotional patterns defined as abnormal, and examines the current classification system and assessment procedures. Students will examine causal models of abnormal behavior from an integrated systems approach. Biological, psychological and social treatments of psychological disorders are

also discussed and evaluated. Classification, etiology and treatment will be examined using case studies.

### **PSY 3700 - Psychology of Group Prejudice**

**Credits:** 3

**Prerequisite(s):** PSY 1001 or AAS 1010 or GWS 1001

**Description:** This course covers psychological theory and research that examines causes, effects, expressions, and reduction of group prejudice. Various types of group prejudice are addressed, most notably prejudice against cultural and ethnic minorities in the United States (i.e., Native Americans, African Americans, Hispanic Americans, and Asian Americans). Sexism and heterosexism also are discussed.

*Note: Credit will be granted for only one prefix: AAS, GWS, or PSY.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3700, GWS 3700

### **PSY 3920 - Gender Politics of Health**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or SOC 1010 or PSY 1001

**Description:** This course focuses on health issues specific to women and the challenges historically faced by women in the health care arena. Students will learn about the role of patriarchal medical mythologies that exist throughout various cultures in the oppression of women, especially minority women, and how women have reclaimed healing, health, and communities of medical knowledge production. This course specifically explores feminist, physiological, psychological, and sociological factors in women's health within a global context.

*Note: Credit will be granted for only one prefix: PSY, SOC, GWS, or ITP.*

**Cross Listed Course(s):** SOC 3920, GWS 3920, ITP 3920

### **PSY 3970 - Practicum**

**Credits:** 3

**Description:** This practicum is a field experience course in psychology. Departmental permission is required to enroll in this course.

*Note: This course may be repeated once for a maximum of 6 credits.*

### **PSY 3980 - Internship in Psychology**

**Credits:** 1-3

**Prerequisite(s):** PSY 1001; major or minor in psychology; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or*

*internships@msudenver.edu.*

*Note: This course may be taken for 1-3 credits (serving 50 hours in internship for each credit). It may be taken up to three times for a maximum of 6 credit hours. Each time students complete an internship, they must participate in both the internship and the seminar.*

### **PSY 4100 - Introduction to Clinical Counseling Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001; PSY 3000 or PSY 3620

**Description:** This course is a survey of clinical and counseling psychology therapeutic procedures and techniques. Emphases of the course include therapeutic modalities, assessment, and diagnosis. There is a focus on ethical and multicultural issues related to the practice of psychology, as well as legal and licensing issues in the practice of clinical/counseling psychology and related practice fields.

*Note: Some sections of this course may be taught as Service Learning.*

### **PSY 4150 - Introduction to Psychological Assessment**

**Credits:** 3

**Prerequisite(s):** PSY 1001; PSY 2310 or PSY 2330; PSY 3000 or PSY 3620

**Description:** This course covers psychological assessment procedures, including interviews and behavioral observations, as well as tests of achievement, aptitude, intelligence, interests, and personality. Reliability, validity, and standardization of the instruments will be emphasized. The utility and limitations of each type of measure also will be addressed.

*Note: This course was previously named Psychological Testing. Credit will be granted for the course under the current or previous title, but not both. The course taken under the current title can be used for Grade Replacement purposes with the previous title.*

### **PSY 4320 - Advanced Psychological Research Methods**

**Credits:** 3

**Prerequisite(s):** PSY 2340 or PSY 3010; Senior standing

**Description:** This course entails the student proposing and designing an empirical psychological study under the guidance of the instructor. Students conduct and analyze a research study using scientifically valid quantitative and/or qualitative methods to investigate psychological phenomena. Students present their research and write a manuscript of the results. This course may be used to fulfill the Senior Experience requirement, and is strongly recommended for students interested in applying to graduate school in Psychology.

*Note: Credit will be granted for only one prefix: HON or PSY.*

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** HON 4320

### **PSY 4330 - Psychology in the "Real World": Thinking Like a Psychologist**

**Credits:** 3

**Prerequisite(s):** PSY 2340 or PSY 3010; senior standing

**Description:** In this course, students apply principles of scientific

inquiry to evaluate claims about psychological phenomena made in both scholarly and popular media sources. Students learn to evaluate and synthesize information from multiple sources to answer questions and address problems of personal and professional interest, such as anticipated "real world" challenges in parenting or workplace leadership. As a capstone experience, this course requires students to integrate skills and competencies developed across the major curriculum. This course may be used to fulfill the Senior Experience requirement.

**University Requirement(s):** Senior Experience

### **PSY 4410 - Human Factors Engineering**

**Credits:** 3

**Prerequisite(s):** PSY 1001; PSY 2310 or PSY 2330; or permission of instructor

**Description:** This course surveys the field of human factors engineering focusing on identifying the strengths and limitations of humans, in order to apply human factors design principles in optimizing human interactions with both mechanical and environmental systems, as well as workplace, home, and other environments. Emphasis is on the industrial applications of human factors design principles and psychological research data.

### **PSY 4450 - Advanced Statistics: SPSS**

**Credits:** 3

**Prerequisite(s):** Minimum grade of B in both PSY 2330 and PSY 2340

**Description:** This course offers study of multivariate statistics such as multiple regression, factor analysis, discriminant analysis, and multivariate analysis of variance. Students will learn how to use the Statistical Package for the Social Sciences (SPSS) to perform the necessary statistical tests. Emphasis will be on understanding, application, and interpretation of multivariate statistics.

### **PSY 4510 - History and Systems of Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 2340 or PSY 3010 and Senior standing

**Description:** This course presents a critical survey of major theoretical and meta-theoretical systems in psychology from an historical perspective. Philosophical assumptions as well as cultural and political forces are discussed. Similarities and differences among the various theoretical models are highlighted. The student synthesizes and critically evaluates material from previous courses in psychology.

**University Requirement(s):** Senior Experience

### **PSY 4520 - Sensation and Perception**

**Credits:** 3

**Prerequisite(s):** PSY 1001 and (PSY 2120 or BIO 1000 or BIO 1030 or BIO 1080 or BIO 1081) and junior standing.

**Description:** This course examines how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Anatomy and physiology of the

sensory systems are studied, as are perceptual theories, models, controversies, and applications.

### **PSY 4530 - Psychology of Learning**

**Credits:** 3

**Prerequisite(s):** PSY 1001 and (PSY 2340 or PSY 3010)

**Description:** This course provides a study of basic learning processes. It focuses on experimental test of learning theories, both historical and contemporary. The course emphasizes non-human investigation while considering human implications.

### **PSY 4540 - Behavioral Neuroscience**

**Credits:** 3

**Prerequisite(s):** PSY 1001; BIO 1000 or BIO 1080; PSY 2120; and junior standing

**Description:** This course provides an in-depth study of the brain. How the brain develops and interacts with other systems in the body is examined. This course also investigates how the brain impacts behaviors such as: sleep, learning and memory, stress and health, and motivation.

### **PSY 4570 - Cognitive Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 1001 and (PSY 2340 or PSY 3010)

**Description:** This course examines current research and theories in cognitive psychology. Topics covered include: attention, pattern recognition, perception, memory, language, thinking, categorization, problem solving, reasoning, and decision making. The information processing and other perspectives to the study of cognition are examined.

### **PSY 4650 - Advanced Internship in Psychology**

**Credits:** 3

**Prerequisite(s):** PSY 2340 or PSY 3010, senior standing, and permission of instructor.

**Description:** In this advanced internship, students participate in a community-based field placement to develop clinical and/or research skills that prepare them for the workplace and/or graduate studies in psychology. Under the supervision of a psychology faculty member, internships provide practical, hands-on experience related to the research and/or practice of psychology. In addition to the internship hours, students attend an interactive seminar that supports learning at the placement site and allows students to apply theoretical knowledge learned in the psychology curriculum to real life situations and experiences. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

**University Requirement(s):** Senior Experience

### **PSY 4700 - Senior Experience in Human Development and Family Studies**

**Credits:** 3

**Prerequisite(s):** PSY 2310 and Senior Standing

**Description:** This is the Senior Experience course for the Human Development and Family Studies major. The course examines and applies the most commonly used research methodologies in human development and family studies. It is a problem-based course in which students synthesize knowledge and skills learned throughout their coursework to propose evidence-based solutions to real-world problems related to working with children and families. The course involves critical analysis of theories of human development, evaluating published research, critiquing, and applying research methods to address practical problems in the field of human development and family studies.

**University Requirement(s):** Senior Experience

### **PSY 4950 - Pro-seminar in Psychology: Variable Topics**

**Credits:** 3

**Prerequisite(s):** Junior standing and Psychology Major or Minor

**Description:** This course is an intensive teaching seminar, intended for advanced students majoring or minoring in psychology, organized around a selected theme.

*Note: Course content will vary, and the course may be repeated once for credit under a different topic.*

### **PSY 4970 - Psychology of the Scholarship of Teaching and Learning**

**Credits:** 3

**Prerequisite(s):** PSY 1001

**Description:** This course focuses on the psychology of teaching and learning as applied to higher education classrooms. The course emphasizes psychological theory and research used to enhance teaching and advance learning. Topics include syllabus creation, review session preparation, student centered teaching techniques, and preparation for academic careers. Participation in a teaching project is a required part of the class and provides experience in the application of the course concepts.

*Note: Students who receive credit for PSY 4970 Teaching of Psychology may not receive credit for PSY 4970 Psychology of the Scholarship of Teaching and Learning.*

## **Public Health**

### **PUB 1000 - Principles of Public Health**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Prerequisite(s) or Corequisite(s):** ITP 1500

**Description:** Students in this course will be introduced to the field of public health by providing a broad overview of strategies and interventions that regulate population level health. The course provides a historical context of public health with an overview of population and community health problems and factors associated

with them, reviewing the health care infrastructure and workforce of health professions, and interventions planned at the community, state and national level by the overall public health systems. The course will also examine health disparities, quality and accessibility as well as the best practices that have been taken by the public health workforce to promote health equity and healthy lifestyles, taking a focused approach to current issues and strategies in the field.

### **PUB 3000 - Health Behavior Theory and Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Prerequisite(s) or Corequisite(s):** PUB 1000

**Description:** Students will learn about the stages of behavior change and the theoretical basis for health behaviors. The course will provide content of what theory is, how theories were originated and developed over time to address modern public health needs, and factors that influence health behaviors as well decisions that control those behaviors. Students will not only explore the most frequently applied health behavior theories, but also understand the concepts and constructs within each theory, and ultimately demonstrate how health behavior theories are used in overall public health practice. The course will take special interest in illuminating how theories can be applied in a variety of settings, with different populations, and addressing an assortment of health issues.

### **PUB 3010 - Community Health Survey, Assessment and Health Improvement Planning**

**Credits:** 3

**Prerequisite(s):** PUB 1000

**Description:** Students will learn concepts and methods of community health improvement and the role of assessment. This course will cover important community health topics including systems thinking that leads to coordination of health care and public health activities to achieve community health goals; the nature of health and its determinants; the use of quantitative and qualitative methods; data analysis; community mobilization and capacity building; and the impact of current national policy, including the Affordable Care Act, on community health improvement.

### **PUB 3020 - Introduction to Epidemiology in Public Health**

**Credits:** 3

**Prerequisite(s):** PUB 1000

**Prerequisite(s) or Corequisite(s):** PSY 2310

**Description:** Students will learn basic principles, concepts, and methods of epidemiology within population health. Topics will include the dynamic behavior and study of disease, critical data gathering and analysis of population health measures, ethical concepts in epidemiological study design and analysis, and investigating disease problems and the associations between risk factors and disease outcomes.

### **PUB 3030 - Essentials of Environmental Health in Public Health Practices**

**Credits:** 3

**Prerequisite(s):** PUB 1000

**Description:** Students will learn about the role of public health in environmental issues and general public safety. The course will address important topics and methodological approaches in the environmental health field in order to provide an overview of the field. Critical issues identified in this course relate to basic life support matters such as pure water, clean air and hazardous waste disposal; and the impact of uncontrolled population growth on the environment, natural resource shortages and climate change. Students will develop an appreciation of the balance between human life activities and environmental resources.

### **PUB 4000 - Health Policy - Practice and Development**

**Credits:** 3

**Prerequisite(s):** PUB 1000 or HCM 3150

**Description:** Students will learn about the role of health policy, and the various ways in which policy and law effect the public health and health care systems. The course will have students analyze the transformations taking place in health care delivery and public health systems, focusing on the development, influences and consequences of health policies and laws. Key policy topics that will be reviewed are the accessibility, cost, and quality of health care, the safety of food, water and the environment, the right to make decisions about our health, the role of public health preparedness, and the pursuit of health equity in our diverse communities.

### **PUB 4010 - Health Program Planning, Implementation, and Evaluation**

**Credits:** 3

**Prerequisite(s):** PUB 1000

**Prerequisite(s) or Corequisite(s):** PUB 3000

**Description:** Students will learn how to implement public health programs and evaluate their effectiveness. The course is grounded in public health practice and will begin developing important skills in the development and implementation of program plans and evaluation projects. Students will explore the application of evaluation strategies with an emphasis on evidence-based public health. Lastly the course will focus on social determinants of health as a critical evaluation concept, seeking to understand key elements in our communities that impact health outcomes, and to develop appropriate strategies to promote health equity for all.

## **Reading**

### **RDG 3110 - Foundations of Literacy Instruction in Grades P-6**

**Credits:** 3

**Prerequisite(s):** PSY 1800, EDU 3100, or EDU 3000 and EDU 3200 (for elementary licensure students) or permission of instructor; satisfactory completion of General Studies requirements in Written Communication and Quantitative Literacy; and junior standing.

**Description:** This course builds the knowledge base of prospective teachers and includes the research and theoretical foundation of P-6 developmental reading programs. It stresses the environmental, cognitive, and language factors influencing the acquisition and

development of literacy with emphasis on phonological awareness and graph phonemics. In this course, preservice teachers gain a current knowledge base which will enable them to select instructional techniques, materials, and assessment instruments that will facilitate the literacy development of diverse learners. For licensure, this knowledge-base course must be followed by a second reading course, either RDG 3120 for early childhood licensure candidates or RDG 4000 for elementary licensure candidates, that will emphasize performance-based and field-based learning experiences.

### **RDG 3111 - Emergent Literacy K-3**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** EDU 2111 or ECE 2100 or SED 2200

**Description:** This K-3 literacy course focuses on language arts components of emergent literacy development, including oral language development, listening, phonological and phonemic awareness, the alphabetic principle, high frequency vocabulary development, decoding, spelling, and writing development, and fluency development. Instructional strategies and assessment techniques that support the acquisition of literacy, current approaches in teaching emergent readers, and materials used in literacy instruction are also covered.

### **RDG 3120 - Developing Print Literacy: Preschool-Grade 3**

**Credits:** 3

**Prerequisite(s):** RDG 3110: and junior standing

**Corequisite(s):** ECE 3150, ECE 3160

**Description:** Standards-based instructional techniques for literacy in a balanced literacy program, preschool- grade 3, are built on a foundation of oral language development. The focus of this course is on instruction which enables children to develop the skills, concepts, and attitudes necessary for greatest success in becoming proficient readers and writers. Diverse student populations are addressed when selecting instructional approaches and designing materials for literacy development. The content of this course is practiced in the field experience course, ECE 3160, shared with a planning and management course that is taken concurrently.

### **RDG 3150 - Middle School Instructional Reading and Writing Strategies**

**Credits:** 4

**Prerequisite(s):** EDS 3110 and EDS 3120 or Permission of instructor

**Description:** This course focuses on the instructional strategies available to the middle school teacher. Emphasis is placed on using an integrated reading and writing approach to the middle school academic core. Extensive practice will be done in writing interdisciplinary thematic units that are developed around compelling personal and social issues for the middle school student.

### **RDG 3222 - Teaching Elementary School Writing**

**Credits:** 3

**Prerequisite(s):** RDG 3111 or RDG 3110

**Corequisite(s):** RDG 3333, RDG 3335

**Prerequisite(s) or Corequisite(s):** EDU 3444; EDU 3445

**Description:** This course focuses on components of K-6 developmental writing programs that develop 21st century writing abilities for diverse learners. Topics include professional knowledge of writing as a sociolinguistic process, with application to lesson design, assessment methods, and effective feedback that build upon K-6 students' strengths and needs. Teacher candidates implement these practices in the co-requisite field experience.

### **RDG 3280 - Teaching Content Literacy Skills**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** EDS 3210 and EDS 3240 or MUS 3351 or MUS 4361 or HPS 3400 and HPS 3410 or HPS 3500 and HPS 3510.

**Description:** This course is for students seeking educational licensure in a K-12 or Secondary content area. Course content and objectives prepare teacher candidates to develop students' ability in reading, writing, speaking, viewing, and listening. Teacher candidates acquire literacy tools, including assessment strategies, to scaffold content instruction for diverse learners. Literacy strategies are applied to positively impact student content learning.

### **RDG 3333 - Intermediate Literacy 4-6**

**Credits:** 3

**Prerequisite(s):** RDG 3110 or RDG 3111

**Corequisite(s):** RDG 3222, RDG 3335

**Prerequisite(s) or Corequisite(s):** EDU 3444, EDU 3445

**Description:** This course focuses on literacy instruction for the intermediate grades 4-6. This course addresses several key areas: intermediate identities and literacies, effective reading and learning practices, expanding comprehension, teacher and student assessment of literacy development, learning strategies, vocabulary knowledge, and literacy in the content areas. An additional focus is matching assessed student abilities and needs to appropriate instructional models and curricular content.

### **RDG 3335 - Field Experience: K-6 Literacy**

**Credits:** 1

**Prerequisite(s):** RDG 3110 or RDG 3111

**Corequisite(s):** RDG 3222, RDG 3333

**Prerequisite(s) or Corequisite(s):** EDU 3444, EDU 3445

**Description:** This field placement involves 45 hours in an elementary school classroom. Teacher candidates apply knowledge of reading and writing development to observe and practice organizing a comprehensive plan of instruction throughout the content areas based on assessment of student abilities, appropriate instructional methods and required curriculum. Students apply a growing repertoire of various instructional models that range from general classroom structure to explicit skill teaching. This course is a field experience taken concurrently with RDG 3222 and RDG 3333.

### **RDG 3530 - Foundations of Language and Literacy for English Language Learners in Elementary Classrooms**

**Credits:** 3

**Prerequisite(s):** RDG 3110 or permission of instructor

**Description:** This course in language acquisition theory and language and literacy instructional techniques is designed to extend the elementary teacher candidate's knowledge of literacy instruction to English language learners. Teacher candidates learn how to develop language and literacy of the English language learners in their elementary classrooms.

### **RDG 4000 - Literacy Instruction in Grades K-6**

**Credits:** 3

**Prerequisite(s):** RDG 3110, EDU 3640, EDU 3650

**Corequisite(s):** EDU 4100, EDU 4105

**Description:** In this course, teacher candidates will extend and apply various components of a K-6 developmental reading program for balanced literacy instruction. They develop and implement instructional plans, materials, and assessment techniques with emphasis on reading and writing standards to succeed in the literacy development of diverse learners. The content of this course provides teacher candidates the opportunity to practice theoretical concepts through structured observations, teaching assignments, and assessment techniques in conjunction with a language arts methods course.

### **RDG 4222 - Perspectives on Literacy: Variable Topics**

**Credits:** 3

**Prerequisite(s):** RDG 3111

**Prerequisite(s) or Corequisite(s):** RDG 3222, RDG 3333, RDG 3335

**Description:** This course focuses on expanding traditional definitions and conceptions of literacy in order to teach to the evolving needs of diverse populations. Expanded notions of literacy include: Digital literacies, disciplinary literacy, visual literacy, out-of-school literacies, and translanguaging. This course is intended to challenge the scope of teacher candidates' literacy knowledge and perceptions for the purpose of establishing a positive and broadened perspective of teaching and learning with expanding best practices. Teacher candidates examine the various roles of teachers, learners and literacy from global perspectives in order to further develop their teaching identities.

### **RDG 4250 - Literacy Assessment: Theory and Practice**

**Credits:** 4

**Prerequisite(s):** RDG 3120 or RDG 3280 or RDG 4000, or Permission of instructor

**Description:** In this course teacher candidates will learn how to assess student literacy development from grades pre-K-12. They learn to administer and interpret appropriate assessment instruments and use the results to write instructional plans designed to further literacy development for a diverse population of students.

### **RDG 4333 - Individual Assessment and Instruction in Literacy**

**Credits:** 3

**Prerequisite(s):** RDG 3111

**Prerequisite(s) or Corequisite(s):** RDG 3222, RDG 3333, RDG 3335

**Description:** In this course, the focus is on working one-on-one with a K-6 student in a field setting to collect, examine, and interpret that student's assessment data in order to provide data-based instruction in conjunction with standards. Working with one student to practice giving assessments, planning, and delivering literacy instruction based on student strengths and weaknesses provides the opportunity for an in-depth understanding of the teach-assess-adjust cycle. Collaborative work with peers and other professionals assists with skill development in aligning assessment data and literacy instruction with content.

### **RDG 4444 - Accountability in Whole Class Literacy Assessment**

**Credits:** 3

**Prerequisite(s):** RDG 3222, RDG 3333, RDG 3335, EDU 3550, EDU 3665, EDU 3666

**Corequisite(s):** EDU 4011; EDU 4115 or EDU 4116

**Description:** This course focuses on collecting and interpreting whole class assessment data in order to plan literacy instruction. Topics include how state and federal legislation affect literacy instruction, as well as methods for differentiating literacy instruction. Collaborative planning as part of an educational team is a further focus. Application of this course content will be in the partnering residency.

### **RDG 4550 - Current Literacy Issues: Variable Topics**

**Credits:** 1-3

**Prerequisite(s):** RDG 3120 or RDG 3280 or RDG 4000 or Permission of instructor

**Description:** This variable topics/variable credit course will enable students to pursue an in-depth study of one or more literacy issues that are not covered to a great extent in other reading courses.

*Note: Course may be repeated for credit for different topics.*

### **RDG 4970 - Teaching of Psychology**

**Credits:** 3

**Prerequisite(s):** Fifteen semester hours of psychology and junior or Senior standing, psychology major or minor

**Description:** This course provides intensive experience as an undergraduate teaching assistant under close faculty supervision. The experience includes lecture/seminar meetings and additional hours of application each week. During the seminar portion of the course, students will learn about preparing a learning environment, performing textbook selection, and writing materials required for teaching. Students will also be given guidance on job/graduate school preparation.

*Note: Students may take the course only once for credit but may later do a two-credit independent study with a different supervising professor.*

## **Real Estate**

### **REL 2200 - Introduction to Real Estate**

**Credits:** 3

**Description:** In this course, students will be exposed to a high level overview of real estate principles and practices, including the many possible careers in real estate, such as development, residential and commercial sales, appraisal, title, lending, property management, ownership, and investment, as well as general risks and mitigation principles. Students will also examine the financing of real estate projects/acquisitions, the management of risk in the banking industry, the responsibilities of banks towards customers and other stakeholders, the regulation of lending for real estate, the regulation of mortgage brokers, the role of the public trustee, and other lending/security aspects of real estate.

## Recreation Professions

### RECR 1870 - Recreation, Leisure, and Well-Being

**Credits:** 3

**Description:** This course provides an overview of recreation and leisure, including career opportunities. Philosophy, history, leisure education, and the interrelationships among governmental institutional, voluntary, and commercial/private recreation and park agencies are discussed.

### RECR 2110 - Recreation Leadership Skills and Techniques

**Credits:** 4

**Description:** This course is designed to develop and enhance recreation leadership skills used in the delivery of recreation and park services.

### RECR 2210 - Nature, Leadership, and Outdoor Recreation

**Credits:** 3

**Description:** This course is designed to help you develop professional knowledge of the central theories related to outdoor recreation. More specifically, the course explores the history of outdoor recreation, nature, experiential learning, and expedition planning.

### RECR 2330 - Advocacy, Leisure, and the Aging Adult

**Credits:** 3

**Description:** This course studies the impact of advocacy and social action programs for the aging adult. Discussions include issues at the local, state, and national levels and their implications for recreation programs. Students will have the opportunity to become involved with community advocacy programs.

### RECR 3330 - Introduction to Therapeutic Recreation Services

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** RECR 1870 or permission of instructor

**Description:** This course surveys the recreation needs of individuals with disabilities. It provides an overview to therapeutic recreation

services, including those in both health-care agencies and community-based settings.

### RECR 3430 - Program Development in Therapeutic Recreation

**Credits:** 3

**Prerequisite(s):** RECR 3330

**Description:** This course focuses on applying programming concepts including conceptualization, planning, implementation, and evaluation of comprehensive and specific therapeutic recreation services. Equipment, program modifications, and adaptations are discussed.

### RECR 3530 - Techniques in Therapeutic Recreation

**Credits:** 4

**Prerequisite(s):** RECR 3330

**Description:** This course will examine tools, techniques, and procedures utilized in the delivery of therapeutic recreation services. Assessment, individual treatment plans/program plans, documentation, and community integration skills are discussed. Application of content to practice in the field is required.

### RECR 3840 - Design and Maintenance of Recreation and Park Resources

**Credits:** 4

**Prerequisite(s) or Corequisite(s):** RECR 1870 or permission of instructor

**Description:** This course examines the planning, design, and maintenance of recreation facilities and equipment, including recreation centers, sports areas, parks and open space, aquatic areas, and commercial recreation facilities.

### RECR 3860 - Self-Assessment for Outdoor Recreation Professionals

**Credits:** 3

**Prerequisite(s):** RECR 2210

**Description:** To promote effectiveness as a future outdoor recreation professional, and as a leader, the overall structure of the course seeks to address the essential quality of developing the vision of reflection-in-action.

### RECR 3870 - Internship Seminar for Recreation and Park Professions

**Credits:** 2

**Prerequisite(s):** RECR 3970 or Permission of instructor

**Description:** The course prepares the recreation major for an internship placement in the recreation and parks field. Topics include goal setting, agency identification, supervisor qualifications, professional certification, ethics, professional development, time management, philosophy, and financial issues.

### RECR 3930 - Contemporary Issues in Recreation and Parks: Variable Topics

**Credits:** 1-3

**Description:** This is a variable titled course focusing on a variety of contemporary issues impacting the recreation and park field.

*Note: This course cannot be repeated for credit under a similar title.*

### **RECR 3970 - Practicum in Recreation Services**

**Credits:** 3

**Prerequisite(s):** RECR 2110 or Permission of instructor

**Description:** This is a 90-hour, structured practical experience working in recreation, services. The course allows students to apply concepts learned in the classroom and to explore career opportunities. This experience will be under the supervision of an agency professional and an MSU Denver faculty member.

### **RECR 3980 - Internship in Recreation Professions**

**Credits:** 1-15

**Prerequisite(s):** Major in Recreation Professions; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **RECR 3990 - Field Experience in Recreation and Park Professions**

**Credits:** 1-3

**Prerequisite(s):** Permission of instructor

**Description:** This course provides the student with an opportunity to gain practical experience in recreation and parks, including settings such as recreation centers, resorts, private clubs, nonprofit organizations, hospitals and health-care organizations, specialized sports facilities, and outdoor areas.

### **RECR 4030 - Issues and Trends in Therapeutic Recreation**

**Credits:** 3

**Prerequisite(s):** RECR 3330

**Description:** This course focuses on contemporary issues impacting the profession in therapeutic recreation and includes topics such as standards of practice, ethical guidelines, credentials, philosophies, training and competency, reimbursement and research initiatives.

### **RECR 4130 - Administration of Recreation and Park Services**

**Credits:** 3

**Prerequisite(s):** RECR 1870, RECR 2110, RECR 3970; or Permission of instructor

**Description:** This course provides knowledge of the principles and practices required for the management of recreation and park agencies. Topics include personnel management, fiscal management, legal aspects, computer applications, evaluation, and research.

### **RECR 4150 - Advanced Techniques in Therapeutic Recreation**

**Credits:** 4

**Prerequisite(s):** RECR 3330, RECR 3530; or Permission of instructor

**Description:** This course focuses on intervention techniques applicable to the leadership of therapeutic recreation. Individual and group facilitation techniques are discussed, including the development of a leisure-education program. Opportunities for involvement in clinical or community-based therapeutic recreation programs will be provided.

### **RECR 4550 - Aquatic Management**

**Credits:** 3

**Prerequisite(s):** Permission of instructor

**Description:** This course emphasizes the development, organization, and management of diverse aquatic programs and facilities. Course content includes topics for certifications, including Certified Pool Operator.

### **RECR 4630 - Recreation Programs for the Older Adult**

**Credits:** 3

**Prerequisite(s):** At least junior standing

**Description:** This course studies the role of recreation and leisure services as they relate to understanding the needs of services for the older adult. Emphasis will be on recreation planning in senior centers, skilled nursing facilities, day-care centers and long-term care facilities.

### **RECR 4790 - Applied Research and Evaluation**

**Credits:** 2

**Prerequisite(s):** RECR 4130

**Corequisite(s):** RECR 4890

**Description:** This course provides students with the opportunity to learn and practice applied research and program-evaluation skills in conjunction with their internship.

### **RECR 4810 - Grants and Grant Writing in the Health Professions**

**Credits:** 3

**Description:** This course provides the student in the health professions with an understanding of funding sources, resources to locate funding agencies, and the grant writing process. Students will write a grant proposal for a community agency.

*Note: Credit will be granted for only one prefix: RECR or HON.*

**Cross Listed Course(s):** HON 4810

### **RECR 4850 - Advanced Administration and Evaluation**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** RECR 4130

**Description:** This course provides an intensive opportunity to develop administrative skills necessary in both recreation management and therapeutic recreation settings. Topics include research and evaluation methodologies with a focus on applied concepts, marketing through traditional and social media approaches, and sources of funding through bonds, partnerships, sponsorships and grants.

### **RECR 4890 - Internship in Recreation, Parks, or Therapeutic Recreation**

**Credits:** 10-14

**Prerequisite(s):** Recreation Professions major, senior standing, completion of core and concentration area courses, minimum 2.75 GPA, completion of General Studies requirements

**Description:** This course is designed to provide the recreation major with an intensive practical experience in the field of recreation, parks, or therapeutic recreation. Students must complete a minimum of 12 weeks with 480 clock hours at their agency for 10 credits. Each additional credit requires 40 more clock hours and 1 additional week at their agency for a maximum of 640 clock hours over 16 weeks.

**University Requirement(s):** Senior Experience

### **RECR 4960 - The Ethics of Recreation**

**Credits:** 3

**Prerequisite(s):** RECR 2210, Junior Standing

**Description:** This course is intended for students interested in working in recreation professions. It will focus on understanding and applying theory and constructing a personal ethic of the role of recreation in real-world situations. Theoretical support for this course will be derived from diverse areas including the ethic of care, environmental ethics, social justice, and critical race theory. Students will be engaged in understanding theories through both in-class lecture and discussion.

### **RTM 2000 - Commercial Recreation and Tourism**

**Credits:** 3

**Description:** Students in the course will be introduced to concepts related to the planning, development, and managing of recreation and tourism businesses. The course analyzes such topics as managing an enterprise, resources, place-based considerations, risks, marketing, and operations management.

### **RTM 2730 - Sport in Society**

**Credits:** 3

**Description:** This course will examine the relationship of sport to society, using social theory and historical perspectives. The course emphasizes the impact of sport on American culture.

*Note: Credit will be granted for only one prefix: SM or RTM.*

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** SM 2730

### **RTM 3100 - Adventure Instruction**

**Credits:** 3

**Description:** Students will explore what makes an effective adventure instructor and facilitator. Of note, the course combines instructional theory, practical approaches, and developmental goals in a unified process for the adventure instructor.

### **RTM 4000 - Recreation and Tourism Policy and Planning**

**Credits:** 3

**Description:** This course prepares students to develop effective recreation and tourism programs in diverse settings, including urban, public, private, and volunteer agencies. The course examines contemporary issues related to economics and policy in local and global recreation and tourism industry.

## **Restaurant Management**

### **RST 1200 - Basic Cooking Skills**

**Credits:** 3

**Description:** This course serves as an introduction to fundamental cooking skills, methods, theories and techniques. Students demonstrate proficiency in food safety and sanitation principles, learn to incorporate sustainable food practices, including local food sourcing, composting, upcycling, and seasonality. Students take the ServSafe Food Handler Certification in the course.

### **RST 1550 - Food Fundamentals**

**Credits:** 3

**Description:** The fundamentals of food are explored through visual and sensory analysis. Food identification, selection and sourcing are explored through demonstrations, videos, and kitchen tours of the Hospitality Learning Center. Course activities utilize food and kitchen vocabulary vital to a professional food service manager. The principles of food safety and sanitation and their relationship to the daily operations of food service are integrated throughout the course. ServSafe Food Handler Certification is achieved by each student during this course.

### **RST 2500 - Basic Baking Skills**

**Credits:** 3

**Description:** This course introduces students to the fundamentals of baking. Topics include mixing methods, leavening, baking science, terminology, equipment, ingredients, weights and measurements, formula conversion and costing of recipes. Students will produce a wide variety of baked goods using basic baking techniques.

### **RST 2550 - Food Preparation and Science**

**Credits:** 3

**Prerequisite(s):** HTE 1533 or RST 1550

**Description:** This course is designed to introduce students to properties of foods and changes that occur during preparation. Students will learn basic skills in food preparation and presentation while implementing food safety and sanitation standards. Students

will conduct quality tests on prepared food and use data to evaluate the appearance, composition, taste, tenderness and selection of food products.

### **RST 3000 - Taste the World: A Global Sensory Experience**

**Credits:** 3

**Description:** Students taste and evaluate regional cuisines and beverages, responsible service of alcohol, and focus on ingredients, flavors, and preparation. Students delve into geographical, historical, technological, social, and religious factors that have influenced food-and-beverage behaviors, exploring how cultures impact individuals and food choices.

### **RST 3530 - Healthy International Cooking**

**Credits:** 3

**Description:** In this course, students explore the culinary history and development of cuisines from global cultural perspectives, and examine the elements of food flavors through the exploration of the nutritional value of food. Students will experience cuisines from worldwide regions utilizing authentic ingredients and tools for preparation and service. The principles of healthy cooking and nutrition will be employed and applied to food types to include the demonstration of cooking with less fat and less salt. Students develop and analyze healthy cooking techniques for international recipes and menus. An emphasis is placed on the influences that have developed cultural traditions, taboos and dining etiquette as practiced by the global populations. Students will also earn the ServSafe Food Handler's Certificate, and review the basics of proper kitchen sanitation.

### **RST 3540 - Baking and Pastry**

**Credits:** 3

**Prerequisite(s):** HTE 1603 or RST 2550

**Description:** This course introduces students to the fundamentals of baking and pastry production. The focus is on mixing methods, leavening, baking science, terminology, equipment, ingredients, weights and measurements, formula conversion and costing of recipes. The students will successfully and consistently produce saleable items and will have the opportunity to act in a supervisory role while in this course.

### **RST 3550 - Food Production and Service**

**Credits:** 3

**Prerequisite(s):** HTE 1603 or RST 2550

**Description:** In this course, students learn the proper use of quantity food equipment and tools, menu planning, nutrition and health, measurement and recipe conversions, yield tests, food costing, cooking principles and techniques, basic baking techniques religious and vegetarian menu options, plate design and table service techniques. The student will be introduced to the various cooking methods of fruits and vegetables, meats, poultry, seafood, dairy, egg products and baked goods. Students complete the classroom experience with hands on experiential learning in our live restaurant environment.

### **RST 3600 - Cost Controls for Food & Beverage**

**Credits:** 3

**Description:** This course develops the skills for a manager of food and beverage operations in the hospitality or health care industries. Procurement, preparation and service to final accountability of sales and costs are covered.

### **RST 3875 - Food Preservation Techniques**

**Credits:** 3

**Description:** This course concentrates on aspects of cooking with products found in urban agriculture and urban homesteading environments. This includes cooking with local farm and ranch products. This course also reviews several food preservation methods, including canning, pickling, brining, smoking, curing, drying and freezing. Students can expect to learn protein fabrication, cheese making, sustainable food preservation methods, as well as how to procure locally grown items.

### **RST 4100 - Applied Food and Beverage Operations**

**Credits:** 3

**Prerequisite(s):** RST 1200, ACC 3120, HLDR 3200

**Description:** This course provides an applied learning environment in foodservice operations. Students practice all the duties of food and beverage operations from menu and theme concept development to planning, equipping, purchasing, budgeting, and control of food and beverage service. Students practice leadership and management skills in the operation of a full food service where responsibilities include: organization, staffing, training, marketing, customer service, and development of service standards and menus.

### **RST 4500 - Concept Development for Restaurants**

**Credits:** 3

**Prerequisite(s):** HTE 2015 or BVG 2015 and HTE 3603 or RST 3600

**Description:** This course provides the student with the ability to conceptualize and create a business plan for a restaurant concept. Students build concepts based on local health, liquor and zoning regulations, using real property as a basis to create their concepts. Students can expect to gain knowledge of all the duties of a restaurant business plan, including theme concept development, menu engineering, floor plan design, equipment needs, beverage program development, budgeting, and estimate costs of food and beverage service. Students also define market demographics, and create a competition analysis.

**University Requirement(s):** Senior Experience

## **Secondary Education**

### **EDS 1001 - Educational (In)Equality in the 21st Century**

**Credits:** 3

**Description:** The purpose of this course is to introduce historical, sociological, and cultural principles that account for school experiences of diverse groups in public education. Students learn how

issues of multicultural education interact with communities and schools. Students examine issues of race, class, gender, sexuality, ability, language, and the intersections between these categories in educational settings. This course includes a service learning component in which students apply the material from class in an educational setting and critically reflect on their service experience.

*Note: Some sections of this course may be taught as Service Learning.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

**University Requirement(s):** Multicultural

### **EDS 2680 - Portfolio Development Workshop**

**Credits:** 1

**Description:** Students learn to identify, analyze, discuss, and document learning gained through experience. Students integrate prior experiential learning with current educational needs and goals. Basic principles of adult learning and developmental theory are introduced as they apply to the student's experience. Students will prepare a prior-learning portfolio. Those who are interested may develop this portfolio into an application for credit for prior learning.

### **EDS 3000 - Education, Culture & Politics: A Puerto Rican Perspective**

**Credits:** 3

**Description:** This course focuses on the history, culture, educational and political systems of the island of Puerto Rico. Several class sessions will be held in Denver to discuss the before mentioned issues. The study abroad trip to Puerto Rico will include visiting and observing K-12 schools (public, private, urban and rural) to gain an understanding of the offerings, philosophies of education, accessibility and/or diversity issues at said schools. The influence of politics will also be highlighted as one of the connecting threads of the life and culture of Puerto Rico.

### **EDS 3130 - Foundations of Educational Psychology and Philosophy**

**Credits:** 4

**Prerequisite(s):** Satisfactory completion of General Studies requirements in Social and Behavioral Sciences I; at least sophomore status

**Corequisite(s):** EDS 3140

**Description:** Teacher candidates in this course will explore psychological and philosophical theories of education as they apply to secondary classrooms. Candidates will investigate four questions essential to future teachers: 1) Why do we have schooling? 2) How do people learn? 3) Who decides what and how students are taught? and 4) What do teachers do? Candidates address these questions by making connections between the fields of developmental psychology, educational philosophy, social policy, and school governance. Teacher candidates will demonstrate their understanding of these essential questions by articulating their educational philosophy and creating learning designs grounded in theory and best practices. This course -informed by current research on cognition, motivation, and culture -is designed to promote a deeper understanding of the rewards and challenges associated with becoming an effective teacher.

Finally, this course requires concurrent enrollment in EDS 3140, a 60-hour field experience in a diverse middle or high school where candidates are prompted to apply these theories within classroom settings.

**General Studies:** Social and Behavioral Sciences

### **EDS 3140 - First Field Experience in Secondary Education**

**Credits:** 1

**Prerequisite(s):** Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy; and sophomore standing.

**Corequisite(s):** EDS 3130

**Description:** This course provides the teacher candidate with an opportunity to apply theory to practice in order to make appropriate decisions in multicultural urban secondary schools under the guidance of an experienced classroom teacher. During this sixty-hour field placement, teacher candidates are introduced to practices of schooling. They complete projects and performance tasks demonstrating developing proficiency toward performance-Based Standards for Colorado Teachers.

### **EDS 3150 - Issues in Multicultural Education in Urban Secondary Schools**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** EDS 3140 or EDS 3240 or MUS 3351

**Description:** This course develops cultural awareness and a trauma-informed and multicultural framework for viewing classroom interactions and curricula. It addresses racial and ethnic inequality and social stratification as primary lenses for understanding and analyzing the socially constructed concepts related to human diversity (race, ability, age, ethnicity, gender identity/expression, trauma, religion, sexual orientation, and socioeconomic status) and the relationship of these social constructs to the school setting. Emphasis is placed on the roles teachers as decision makers play in meeting educational needs of learners from diverse backgrounds. Teacher candidates will examine values, beliefs, traditions, identities and contributions of African Americans, Asian Americans, Hispanic Americans, and/or Native Americans. This course requires previous completion of or concurrent enrollment in a field experience: EDS 3140, EDS 3240, or MUS 3351.

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

### **EDS 3200 - Educational Psychology Applied to Teaching**

**Credits:** 3

**Prerequisite(s):** EDS 3110 and EDS 3120, or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides an emphasis on making appropriate decisions to meet the developmental needs of diverse children, with special focus on children in middle and high school. The teacher candidate develops professional teaching skills needed to establish an effective classroom group and to integrate participation of other school professionals and parents in meeting student needs.

Students apply theory to educational practice as they investigate psychosocial, cognitive, and moral development; student characteristics; assessment; learning theories; student motivation; and classroom management.

### **EDS 3210 - Classroom Management, Planning, and Assessment in Secondary Schools**

**Credits:** 3

**Prerequisite(s):** EDS 3130, EDS 3140

**Corequisite(s):** EDS 3240

**Prerequisite(s) or Corequisite(s):** EDS 3150

**Description:** Teacher candidates synthesize content knowledge, educational theories and pedagogy into standards-based instruction. An Assessment Cycle approach is used to develop an outcomes-based model of teaching and learning. Teacher candidates plan lessons and units integrating Colorado's Model Content Standards in their endorsement areas, integrating literacy, mathematics, and technology. They investigate a variety of approaches to classroom management and learn to differentiate instruction to meet the needs of diverse groups of learners.

### **EDS 3240 - Field Experience: Classroom Management, Planning and Assessment in Secondary Schools**

**Credits:** 1

**Prerequisite(s):** EDS 3130, EDS 3140

**Corequisite(s):** EDS 3210

**Description:** This course integrates content knowledge, educational theories and pedagogy in a 60-hour, standards-based field experience in a secondary school. Field placements are arranged by education faculty. Teacher candidates apply the principles of teaching and classroom management in making appropriate decisions for diverse learners. This course requires concurrent enrollment in EDS 3210.

*Note: Some sections of this course may be taught as Service Learning.*

### **EDS 3280 - Disciplinary Literacy in Culturally and Linguistically Diverse Schools**

**Credits:** 3

**Prerequisite(s):** EDS 3130 and EDS 3140 (or MUS 3351 or ARTE 3601); EDS 3150

**Prerequisite(s) or Corequisite(s):** EDS 3210 and EDS 3240 (or PETE 3400 and 3410; or PETE 3500 and 3510; or MUS 4361; or ARTE 4130; or ARTE 4230)

**Description:** This course brings together future teachers of various secondary education academic disciplines, grade levels, and backgrounds to explore disciplinary literacy and the teaching of literacy and language acquisition in K-12 classrooms, and to consolidate their learning throughout the licensure program. Students will learn about the role of language, specifically the literacy practices of reading, writing, speaking, listening, thinking, visualizing, and representing to gain content knowledge across academic disciplines in culturally and linguistically diverse schools, as well as a hands-on, student-centered approach to prepare teachers who actively promote justice through diversity, equity and inclusion.

### **EDS 3960 - Field Experience in Teaching Science in Secondary Schools**

**Credits:** 1

**Prerequisite(s):** EDS 3210, EDS 3240

**Corequisite(s):** SCI 3950

**Description:** This 60-hour field experience provides opportunities to develop teacher candidates' professional and pedagogical skills in a science classroom. In coordination with the classroom teacher, teacher candidates design and implement science content lessons, prepare for and supervise laboratory investigations, and adjust science instruction for students with diverse needs. Course assignments and evaluations are designed to help teacher candidates become reflective practitioners. Field placements will be arranged by MSU Denver faculty in collaboration with local schools.

### **EDS 4010 - Action Research within Communities of Practice**

**Credits:** 3

**Prerequisite(s):** Senior Standing or permission of department

**Description:** In this senior experience course, students will have opportunities to synthesize the knowledge, skills, and theoretical constructs learned throughout their undergraduate studies. Students will design an action research project relevant to their field of study, discipline, and/or profession. The course requires students to identify applicable research topics, formulate research questions, analyze the quality and credibility of research, synthesize research to develop and organize a literature review, select appropriate research designs and methods, and develop a research proposal aligned with the elements and requirements outlined by MSU Denver's IRB process and Human Subjects Protection Program. Students will have the opportunity to present and discuss their research proposals to demonstrate developed expertise.

**University Requirement(s):** Senior Experience

### **EDS 4290 - Student Teaching and Seminar: Secondary 7-12**

**Credits:** 6,12

**Prerequisite(s):** Completion of all requirements of the teaching major and the Secondary Education Program; initial sign-off on program requirements (e.g., teacher work sample/portfolio) by faculty advisor

**Description:** This is a supervised, full-time, 16-week student teaching experience in an accredited public or private secondary school, providing increasing responsibility for the instruction, assessment, and supervision of an identified group of learners, 7-12 grade levels. Regularly scheduled observations and 10 hours of seminars conducted by an appointed college supervisor are part of the student-teaching requirement. Teacher candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSU Denver's recommendation for teacher licensure.

*Note: Students enrolled for 12 credits spend 16 weeks full-time in a single placement. Only students needing two student-teaching placements and seeking K-12 special education, linguistically diverse or second endorsement enroll for EDS 4290 for 6 credits and spend 8 weeks full-time in the EDS 4290 placement.*

**University Requirement(s):** Senior Experience

## SED 4100 - Including Students with Significant Support Needs

**Credits:** 3

**Prerequisite(s):** SED 3600, SED 3650

**Corequisite(s):** SED 4101

**Prerequisite(s) or Corequisite(s):** SED 3850

**Description:** Instruction, assessment, and progress monitoring for students with significant support needs will be examined and practiced in this course. Preservice teachers will create opportunities for students with diverse needs to be meaningfully engaged and included in general education classrooms. Students in this course will focus on creating consistent and continual progress for learners by building on individual strengths and abilities. This course must be taken concurrently with the field experience course SED 4101 - Teaching Students with Significant Support Needs.

## Science

### SCI 2600 - Integrated Biology and Earth Science

**Credits:** 3

**Prerequisite(s):** Minimum performance standard scores on reading and writing pre-assessments

**Description:** The course examines the application of fundamental scientific principles in biology and earth systems by examining the basic building blocks of life, evolution of life, the human body, ecosystem structure and development, terrestrial formations and surface processes, atmospheric processes, the solar system, and the universe. This class includes laboratory experiments, which a focus on biology and earth science.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### SCI 2610 - Integrated Physical and Chemical Sciences

**Credits:** 3

**Prerequisite(s):** MTH 2620

**Description:** The course examines the nature of energy and matter, their interactions and changes, and the application of fundamental scientific concepts to the study of our natural world. These concepts are explored through hands-on laboratory experiments that focus on basic physics and chemistry principles.

**General Studies:** Natural and Physical Sciences

**Guaranteed Transfer:** GT-SC1

### SCI 3950 - Teaching Science in Secondary Schools

**Credits:** 3

**Prerequisite(s):** EDS 3210, EDS 3240

**Corequisite(s):** SCI 3960

**Prerequisite(s) or Corequisite(s):** RDS 3280

**Description:** This course explores the nature of science and inquiry in preparation for teaching science in a secondary school environment. Teacher candidates learn to choose, develop, implement, and evaluate curriculum based upon student characteristics, understanding of how people learn science, and state and national content standards. Student assessment, safety, and professional development are also emphasized.

## SCI 3960 - Field Experience in Teaching Science in Secondary Schools

**Credits:** 1

**Prerequisite(s):** EDS 3210, EDS 3240

**Corequisite(s):** SCI 3950

**Prerequisite(s) or Corequisite(s):** RDG 3280

**Description:** This 60-hour field experience provides opportunities to develop teacher candidates' professional and pedagogical skills in a science classroom. In coordination with the classroom teacher, teacher candidates design and implement science content lessons, prepare for and supervise laboratory investigations, and adjust science instruction for students with diverse needs. Course assignments and evaluations are designed to help teacher candidates become reflective practitioners. Field placements will be arranged by MSU Denver faculty in collaboration with local schools.

## Social Work

### SWK 1010 - Introduction to Social Work

**Credits:** 3

**Description:** This course will introduce you to the profession of social work. It presents historical and philosophical perspectives of generalist social work practice and social welfare programs in response to human need and rights, and societal problems. An overview is provided of the social worker's role in the fields of health, mental health, policy, family and child welfare, corrections, and work with marginalized and oppressed populations such as older adults, people of color, individuals with disabilities, children, LGBTQ+ individuals and communities.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### SWK 1050 - How to Change the World

**Credits:** 3

**Description:** Operating from human rights and social justice frameworks, this course is an introduction to how to address some of our most pressing social problems. A range of topics will be covered such as environmental and food justice, healthcare, children's rights, racial justice, immigration, gender, LGBTQ+ rights, criminal justice, poverty, and income inequality. The class will include social science content on theories and methods of social and political change such as political advocacy, activism, research, social movements, and civic engagement. Students will hone their critical thinking skills by studying and posing solutions to our nation's complex social challenges.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### SWK 1600 - Community Engagement and Civic Responsibility

**Credits:** 3

**Description:** This course focuses on providing a community oriented, service-learning and civic engagement experience from a social work perspective. In this course students will provide at least 30 hours of services to a community organization to enhance their

academic and civic learning and complete a final project demonstrating their knowledge of social problems related to their service-learning site. Students will be introduced to the role of student learner within an agency context prior to beginning the service learning experience. Students will reflect on social justice issues, understand socioeconomic and political factors that affect their communities and apply their reflection and learning to their personal and professional development.

*Note: Some sections of this course may be taught as Service Learning.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **SWK 3010 - Social Work Practice with Children and Youth**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course examines how social workers may work effectively with children and youth in a variety of social service settings. This course examines the developmental needs and rights of children and youth, and issues that may emerge in young people's ecological contexts. Students will utilize the social work generalist intervention model to examine best practice approaches with this population.

### **SWK 3020 - Case Management Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Case management is a foundational practice within the field of social work. Case management is a process involving the assessment, intervention plan, implementation, and monitoring of services in a variety of social service organizations. The process enables social workers to coordinate services for clients across systems addressing multiple needs. This course will take students through the entire case management process from intake through monitoring to termination.

### **SWK 3030 - Social Work with Older People**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course focuses on social work practice with older adults and their families. The course examines the social context of aging, the aging process, accompanying changes, and the impact on older persons and their families. Emphasis is also on the nature of support systems and the social work role in sustaining and enhancing functioning and well-being.

### **SWK 3040 - Creative Approaches to Change**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will examine social work interventions that

utilize creativity and innovation to facilitate change at micro, mezzo, and macro levels. Creative modalities such as art, drama, music, writing, physical activities, and other innovative practices will be examined for their utility in creating social change. This course will examine how selected social work issues have been addressed using creative modalities.

### **SWK 3050 - Human Behavior in the Social Environment I**

**Credits:** 3

**Prerequisite(s):** General Studies requirements; Admitted to major

**Prerequisite(s) or Corequisite(s):** SWK 3410

**Description:** This course explores major social theories as they describe and explain the social world, with special sensitivity to culture and diversity. This course examines interdisciplinary social theories, including social work, psychological, sociological, critical, as well as other theoretical perspectives. Social theories will be applied to social work issues and practice.

### **SWK 3060 - Human Behavior in the Social Environment II**

**Credits:** 3

**Prerequisite(s):** SWK 3050

**Description:** This course expands on content from HBSE I, focusing on how practice theories undergird change processes in social work. This course provides an overview of prominent practice theories, such as cognitive behavioral, crisis intervention, narrative and solution focused theories. Students will engage in the application of social and practice theories within social work settings in order to create meaningful change with client systems.

### **SWK 3070 - Environmental Justice in Social Work**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will examine how the environment relates to issues of social justice and inequality. Students will examine how environmental issues such as pollution, disasters, and waste sites disproportionately affect marginalized communities. This course examines urban, rural, and suburban spaces, as environmental issues shape individual and community well-being in each of these spaces. Issues of community organizing and activism are examined as tools for effecting change on these topics. Students will apply the generalist intervention model to issues of sustainability, and environmental protection and management.

### **SWK 3080 - Social Work with Families**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will examine social work issues in contemporary families. Diverse family forms will be discussed from an ecological perspective. This course will utilize family theories to examine the roles that social workers play in supporting families using the generalist intervention model.

### SWK 3090 - Philosophy of Social Work

**Credits:** 3

**Prerequisite(s):** Admitted to major

**Description:** This course will examine the historical, philosophical, value based, and ethical underpinnings of the social work profession. The history of social work and social welfare in the United States will be critically analyzed with regard to how this history affects practice and those we serve. This course discusses, applies, and practices the ethics and values of the profession, models of ethical decision-making, and reasoning and critical thinking to decision-making. Students will explore how oppression has influenced social work practice both historically and contemporarily. Students will discuss and explore legal, ethical, and moral dilemmas and the obligations and challenges for social workers in practice.

### SWK 3100 - Child Welfare and the Law

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will provide students with an overview of the legal framework for the delivery of child welfare services. It will include federal and state mandates relating to child-abuse prevention and treatment, adoption, and Indian Child Welfare. The role and processes of the court system will be discussed.

### SWK 3110 - Social Justice and Activism in the Chicana/o Community

**Credits:** 3

**Prerequisite(s):** CHS 1000

**Description:** This course is designed to provide in-depth sociological, historical and political analyses of community-based organizations, the process by which they originated, leadership styles, and information relative to their missions and functions within the Chicana/o community. Students will analyze theories regarding social change as they apply to social justice, activism and community organizing.

*Note: Credit will be granted for only one prefix: CHS, HON, or SWK.*

**General Studies:** Social and Behavioral Sciences

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** CHS 3100, HON 3101

### SWK 3120 - Privilege, Oppression, and Power

**Credits:** 3

**Prerequisite(s):** SWK 1010

**Description:** This course examines institutionalized oppression and responses to oppression. To prepare students for justice-oriented social work practice in a global environment, the course examines the perpetuation of privilege, structural and individual discrimination, and their impacts upon marginalized groups.

**University Requirement(s):** Multicultural

### SWK 3130 - Social Work and Criminal Justice Issues

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course is designed to help prepare social workers for employment in criminal and juvenile justice settings with a focus on micro, mezzo and macro practice. The course provides students with understanding, awareness, and skills to engage as leaders in multi-disciplinary social work practice within both the criminal and juvenile justice systems advancing social, economic, and environmental justice. Students will be exposed to the policies affecting the larger issues of criminal justice reform, court procedure and process for both defendants and victims, as well as the various treatment and rehabilitation methods used by the system to address victim and offender interventions and treatments.

### SWK 3140 - The Black Community

**Credits:** 3

**Prerequisite(s):** AAS 1010 or AAS/SOC 2000, or Permission of instructor, and Completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course relates fundamental concepts and theories of sociology and African American studies to the study of the Black community through an analysis of educational, political, religious, economic, and family dimensions. It emphasizes local, national, and international Black communities. Classic and contemporary black community studies are examined.

*Note: Credit will be granted for only one prefix: AAS, SOC, or SWK.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3300, SOC 3140

### SWK 3150 - Social Work and Child Maltreatment

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will provide students with the basic knowledge of intervention and treatment in situations of child maltreatment. This course will be taught from a family-centered, culturally appropriate framework. Students will learn intervention models as currently practiced in county departments of social/human services.

### SWK 3350 - Social Work Experience: Practice and Communication

**Credits:** 3

**Prerequisite(s):** General Studies requirements; Admitted to major

**Prerequisite(s) or Corequisite(s):** SWK 3410

**Description:** In this course, students will learn about the landscape of human and social services, including the types of agencies, variability of services offered, client populations served, and the role of the social worker in agencies. In addition to class meetings, students will complete 45 hours of volunteer service in a community-based agency under the guidance and supervision of agency personnel where they can integrate classroom learning with practical experiences. Through both course work and community-based volunteer service, students will develop their critical thinking and professional writing skills as

required for social work practice and undergraduate social work education. There is an emphasis on deepening understanding, exercising critical thinking, and enhancing clarity and specificity of written communication.

### **SWK 3400 - Leadership and Program Administration in Social Work**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Students will learn and practice leadership skills including how to motivate and engage people; resolve conflict; empower marginalized populations; create strategic plans; and publically speak to promote culturally sustaining, just and equitable change. Leadership theory and practice will inform student's awareness and development of their own leadership styles and ethical application of leadership skills. Students will explore program administration through learning about program evaluation, management, basic budgeting and financing, and relevant legal issues.

### **SWK 3410 - Generalist Practice I**

**Credits:** 3

**Prerequisite(s):** General Studies requirements; Admitted to major; minor student

**Description:** Generalist Practice I provides foundational knowledge, values, and skills essential for Generalist Social Work Practice. This course focuses on the importance of self-understanding, communication, basic interpersonal skills, relationship building, and maintenance. Generalist Practice I explores the Generalist Intervention Model (planned change framework) with focus on engagement, assessment, intervention, evaluation, and termination for work with individuals.

### **SWK 3420 - Generalist Practice II**

**Credits:** 3

**Prerequisite(s):** SWK 3410

**Description:** Generalist Practice II provides foundational knowledge, values, and skills essential for Generalist Social Work Practice with groups and families. This course focuses on mezzo practice concepts including groups and families through the exploration of group development, group dynamics, group leadership, and conflict and difference. Generalist Practice II explores the planned change framework with focus on engagement, assessment, intervention, evaluation, and termination for work with groups and families.

### **SWK 3500 - Social Work Practice with LGBTQ People**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course explores concepts and methods useful in assessing and addressing the strengths, developmental needs, and social issues pertinent to lesbian, gay, bisexual, transgender, queer (LGBTQ) as well as other sexual minority identities. Multiple levels

of practice issues are explored, including individual, group, family, policy, and community. Concepts of oppression and privilege are explored as they relate to LGBTQ people's experiences as well as experiences within LGBTQ communities.

*Note: Credit will be granted for only one prefix: GWS or SWK.*

**Cross Listed Course(s):** GWS 3500

### **SWK 3510 - Spirituality and Religion in Social Work**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Faith and spirituality play an integral role in people's lives and the social work profession. "The inclusion of spirituality as a concept according to the Council on Social Work Education is not only a demonstration of one's cultural competence, but a part of one's ethical responsibility" (CSWE, 2018). This course will explore the role faith plays in the lives of our clients, communities, and social service agencies, and examines many faith traditions including atheist and agnostic frameworks. This course critically looks at the past, present, and future of religion and faith with regard to how it has supported social change and at the same time denied human rights and caused historical trauma. Self-examination of our own beliefs and practices will increase awareness of how our faith impacts ourselves, our practice, and those we work with. Finally, students will learn and practice ways of integrating and using faith, religion, and spirituality in our social work practice to make change.

### **SWK 3520 - Making Change in a Digital World**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course prepares students in social work and allied helping professions to harness technology for social good. We are living in a world that requires our understanding and fluency in a digital language and culture to make change at the micro and macro level. This course examines what it means to be a digital citizen and have digital literacy. Students will explore how power and oppression are present in the most far-reaching areas of our digital world, most of which we don't even see. Finally, this course analyzes digital helping best practices and work on these skills (i.e., telehealth, social media, support groups, public health information) to facilitate change.

### **SWK 3530 - Being Well in a Profession of Well-Being**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Promoting health and well-being are common goals for social work practitioners. This course focuses on healing justice and the role of holistic well-being in professional practice, specifically how practitioners can work on their own holistic well-being while providing care to others. Students will examine the science and strategies of well-being (e.g., mindfulness, positive psychology, vulnerability) while considering all system levels (i.e., micro, mezzo, macro) as possible sources for support and intervention.

### **SWK 3540 - Social Work in Healthcare Settings**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Promoting health and well-being are common goals for social work practitioners. This course examines issues of health, illness, and well-being within a social and cultural context, particularly in regards to health disparities (e.g., race, class, gender). Students will learn about the myriad roles that social workers play in health and medical settings, with special attention paid to case management. Finally, students will examine strategies to enhance health and well-being through micro, mezzo and macro interventions.

### **SWK 3550 - Social Work Practice with Grief and Loss**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course will address grief and loss across the lifespan from a social work perspective including traditional, ambiguous, and disenfranchised grief. Students will be provided with information about why and how humans grieve and how grieving is affected by an intersection of characteristics of the person grieving and societal norms. Various types of loss will be discussed alongside implications for social work practice at micro, mezzo, and macro levels.

### **SWK 3560 - Teaching in Social Work**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021; Approval of the BSSW Program Director

**Description:** Teaching, public speaking, group dynamics, and program development are key components of social work practice. To cultivate students' skills in these areas, students may apply to work with a faculty mentor as a teaching assistant in supporting the teaching activities. This course supplements and supports the activities that students will perform with support from their faculty mentor. This course examines topics related to teaching in social work, such as ethical and legal considerations, theories of pedagogy, classroom and institutional policies, teaching technologies, assessment of student learning, lesson planning, and classroom dynamics.

### **SWK 3570 - Social Work Practice with Immigrants and Refugees**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** In this course students examine the experiences of immigrants and refugees from a social work perspective. This course provides an overview of social, historical, legal, cultural and other environmental factors that shape contemporary experiences of immigrants and refugees within the United States. The course will focus on issues pertinent to these communities, including health, mental health, legal issues, family issues, and intersectional issues of race, class, gender, sexual orientation, ability status, and age.

Students will examine micro, mezzo, and macro interventions for supporting immigrants and refugees in the United States.

### **SWK 3580 - Military Social Work Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** Members of the military, veterans, and their families face unique challenges in contemporary U.S. society. This course examines the social and historical contexts of military service in the U.S., with particular focus on the issues germane to service members and their families, including issues such as health, mental health, substance abuse, violence, and intersectional issues of race, class, gender, sexual orientation, ability status, and age. A substantial focus of this course involves examining micro, mezzo, and macro interventions for improving the well-being of military members and their families.

### **SWK 3590 - Centering Black Experiences in Social Work Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** While Black social workers and clients are often included in content on social work theory, practice, or in conversations about diversity, equity, and inclusion, Black experiences are rarely at the center of these conversations. This course centers Black experiences in social work history, theory, and practice. In this course, students will learn more about our disciplinary and social-historical contexts, including prominent Black social work leaders, Afrocentric social work theories, and Black-led social justice movements (e.g., civil rights, Black Lives Matter). The course will examine how race (and Blackness specifically) shapes Black social workers' experiences in practice settings, as well as the experiences of Black clients and communities.

### **SWK 3600 - Gender in Social Work Practice**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course examines social work practice from a feminist theoretical perspective. It examines issues of equality, social justice, policy and practice within a patriarchal society. This course examines how gender is produced and reproduced in contemporary society, and how gender matters for social work practice. Multiple levels of practice issues are explored, including individual, group, family, policy, and community. Concepts of oppression and privilege are explored as they relate to people's gendered experiences.

*Note: Credit will be granted for only one prefix: GWS or SWK.*

**Cross Listed Course(s):** GWS 3600

### **SWK 3610 - Social Work and Addiction**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG

1021

**Description:** Throughout history, substances have been used for ceremony and healing. We have lost our connection to communal use and face a massive addiction epidemic. The way through involves anti-oppressive, culturally-responsive, and trauma-informed interventions, which are essential to social work. This course covers foundational information about substances, models of care, interventions, and systemic factors from a social work perspective. The intersection of trauma, identity, and addiction are woven throughout the course. With the appropriate tools, we can face the multilayered challenges of addiction.

### **SWK 3660 - Poverty, Race and Gender**

**Credits:** 3

**Prerequisite(s):** SWK 1010 or permission of instructor

**Description:** This course introduces the student to the relationship between race, gender and poverty and examines the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors are explored in detail. The differences between prevailing stereotypes and current realities are highlighted.

*Note: Credit will be granted for only one prefix: CHS, GWS, SOC, or SWK.*

**Cross Listed Course(s):** CHS 3660, GWS 3660, SOC 3660

### **SWK 3780 - Social Policy and Social Justice**

**Credits:** 3

**Prerequisite(s):** SWK 3050; SWK 3090

**Description:** Students will examine both the historical and contemporary context of social welfare policies and programs with particular emphasis on how they impact vulnerable and at-risk populations. Students will analyze various social welfare policies and the ways in which legislation is developed, enacted, and implemented in our society, including how policies have emerged in response to social problems at the local, national, and international levels. Social welfare policy will be investigated as a dimension of generalist social work practice, and the course will include content related to human diversity, social and economic justice, and political advocacy as a means to achieving social and political change.

### **SWK 4160 - Human Trafficking**

**Credits:** 3

**Prerequisite(s):** GWS 1001, or AAS 1010, or CJC 1010, or HSP 1010, or SWK 1010; upper-division standing; or permission of instructor

**Description:** This course explores human trafficking on international and local levels. A review of multidisciplinary perspectives on labor and sex trafficking provides comprehensive understanding of this human rights issue. Students examine the tactics used by traffickers to recruit and control victims and the effects of abuse on victims. This course provides an overview of U.S. federal and local laws to curb trafficking, including federal Trafficking Victims Protection Act. Finally, students evaluate global and local efforts of the current anti-trafficking movement, including ways to be involved.

*Note: Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 4160, CJC 4160, GWS 4160, HON 4160, HSP 4160

### **SWK 4250 - Exploring Current Social Work Issues**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021

**Description:** This course explores current issues in the field of social work, with a focus on practice considerations for individuals, families, groups, organizations, and communities. Topic will vary by semester. Students may learn more about the topic from the Department of Social Work.

### **SWK 4300 - Research Methods in Social Work**

**Credits:** 3

**Prerequisite(s):** SWK 3060; SWK 3780; SWK 3120; SWK 3090; SWK 3420; SWK 3350

**Description:** This course introduces the student to social work research methods. Topics include problem formulation and definition, hypothesis formulation, measures of central tendency, causality, research designs, measurement, data collection and data analysis. The course emphasizes concepts, skills and values essential to the design and implementation of research and evaluation. Major themes are critical analysis and effective utilization of published research. The goal of this course is to help students develop a basic understanding of the research process in order to engage with research for evidence-based practice.

### **SWK 4310 - Research Statistics and Applications**

**Credits:** 3

**Prerequisite(s):** SWK 4300

**Description:** The goal of this course is to help students develop a basic understanding of the research process in order to engage with research for evidence-based practice. This course provides a basic introduction to the quantitative and qualitative tools used to describe and interpret data when conducting social work practice and research. Students will learn how to select, calculate, and interpret appropriate statistics and use qualitative data to inform direct practice, administration and planning, and policy-making. Students will acquire skills in statistical analysis and presentation of results.

### **SWK 4400 - Generalist Practice III**

**Credits:** 3

**Prerequisite(s):** SWK 3060; SWK 3090; SWK 3120; SWK 3350; SWK 3420; SWK 3780

**Corequisite(s):** SWK 4500

**Description:** This course expands on practice skills developed in Generalist Practice I and II by examining how the Generalist Intervention Model (GIM) may be employed in mezzo and macro practice settings. Students will address engagement, assessment, intervention, evaluation, and termination in community organizing, policy advocacy organizations, and social work leadership. While the focus is on mezzo and macro levels of practice, students will also

examine intervening at all system levels including individuals, families, groups, organizations and communities.

#### **SWK 4410 - Generalist Practice IV**

**Credits:** 3

**Prerequisite(s):** SWK 4400

**Corequisite(s):** SWK 4510

**Description:** This course emphasizes the empowerment of individuals, families, groups, organizations, and communities who have experienced social and economic injustice. Students will apply principles, perspectives, and skills essential to helping populations-at-risk. Students develop a framework for culturally inclusive practice.

#### **SWK 4500 - Professional Field Experience I**

**Credits:** 3

**Prerequisite(s):** SWK 3060; SWK 3090; SWK 3120; SWK 3350; SWK 3420; SWK 3780; Senior Standing

**Corequisite(s):** SWK 4400

**Description:** Students will begin practice experience in a community, social service agency where they will integrate social work knowledge, skills, values and ethics with academic learning. This course involves a field seminar and a concurrent field practicum, which assists in the development of generalist practice skills with individuals, families, groups and larger systems. Students will complete a set number of agency fieldwork hours (a minimum of 200 hours per semester is required by CSWE accreditation standards). Total number of hours will be determined by the Office of Field Education and informed by agency, programmatic, societal, environmental, and/or policy-related factors. Students will complete agency fieldwork serving diverse client populations while under the supervision of a professional social worker. This course is part one of a two semester field placement.

**University Requirement(s):** Senior Experience

#### **SWK 4510 - Professional Field Experience II**

**Credits:** 3

**Prerequisite(s):** SWK 4500

**Corequisite(s):** SWK 4410

**Description:** Students will have the opportunity to integrate theory and practice while demonstrating social work knowledge, skills, values and ethics in a community, social service agency. The field seminar course and concurrent field practicum assist students in the development of generalist practice skills with individuals, families, groups and larger systems. Students will complete a set number of agency fieldwork hours (a minimum of 200 hours per semester is required by CSWE accreditation standards). Total number of hours will be determined by the Office of Field Education and informed by agency, programmatic, societal, environmental, and/or policy-related factors. Students will complete agency fieldwork serving diverse client populations while under the supervision of a professional social worker. This course is part two of a two semester field placement.

**University Requirement(s):** Senior Experience

### **Sociology**

#### **SOC 1010 - People, Power, and Progress**

**Credits:** 3

**Description:** This course is an introduction to the discipline of sociology. It analyzes power, progress, and social change to better understand the forces that shape people's lives, interests, and personalities. Focus is on how we learn to "fit in" to society, the social rules we follow, and areas of social life that generate conflict and inequality. It also examines how major social institutions like the family, education, religion, politics, and the economy shape and affect us as members of society.

*Note: Some sections of this course may be taught as Service Learning.*

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

#### **SOC 1020 - Globalization--The Transformation of Social Worlds**

**Credits:** 3

**Description:** This course focuses on the causes and consequences of globalization from a sociological perspective. Students learn the main theoretical perspectives in sociology (e.g., functionalism, conflict theory, symbolic interactionism) and explore how these theories explain various aspects of globalization. Students learn how to use their sociological imagination, which allows people to look at private experience and link it to broader social forces. This course emphasizes the ways in which globalization affects various societal bodies such as economic, political, medical, and religious institutions. The course also explores how globalization relates to social processes such as culture, migration, technology, social movements, crime, and war.

**General Studies:** Social and Behavioral Sciences, Global Diversity

**Guaranteed Transfer:** GT-SS3

#### **SOC 1040 - Introduction to Social Gerontology**

**Credits:** 3

**Prerequisite(s):** Minimum performance standards on the reading, writing and mathematics preassessment placement tests

**Description:** This course is a study of the processes of aging, biological and social, of the impact of the environment on the personality, and behavior of older persons and their roles in society.

**University Requirement(s):** Multicultural

#### **SOC 1080 - Love and Family in East Asia**

**Credits:** 3

**Prerequisite(s):** Minimum performance standards on the reading, writing and mathematics preassessment placement tests.

**Corequisite(s):** ENG 1010

**Description:** This course explores love, marriage, and family life in some East Asian societies (China, Japan, and South Korea). Topics include: socio-cultural construction of love and romance, sexuality, marriage, parenting, race and ethnicity, aging, and social inequality in East Asian families. A final unit focuses on the impact of globalization and technological advancement on love, marriage, and family life in East Asia.

**General Studies:** Social and Behavioral Sciences, Global Diversity  
**Guaranteed Transfer:** GT-SS3

### **SOC 1600 - Tourism and Society**

**Credits:** 3

**Description:** This course introduces students to tourism through a variety of sociological perspectives, enabling students to understand the social and cultural forces that define tourism, the social impacts of tourism development, the development of travel in modern society, and tourism as a global industry. Topics include the environment, race, class and gender, and the role of technology.

**Guaranteed Transfer:** Social and Behavioral Sciences

**Cross Listed Course(s):** TTM 1600

### **SOC 2000 - Social Movements and the Black Experience**

**Credits:** 3

**Prerequisite(s):** AAS 1010, SOC 1010, or Permission of instructor

**Description:** This course analyzes and interprets the nature, cause, and consequence of Black social movements in the United States, ranging from the slave period to the present. Particular attention is given to the Civil Rights movement of the 1950s and 1960s.

*Note: Credit will be granted for only one prefix: SOC or AAS.*

**Cross Listed Course(s):** AAS 2000

### **SOC 2010 - Social Problems**

**Credits:** 3

**Description:** Explore the causes and consequences of major social issues such as crime, family violence, group conflict, and poverty using historical, contemporary and cross-cultural data.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **SOC 2090 - The Black Lives Matter Movement and the Origins of Modern Black Protest**

**Credits:** 3

**Description:** This course applies sociological concepts and historical themes to an analysis of the origins and nature of the Black Lives Matter (BLM) movement. The course begins with brief coverage of black resistance in the colonial period to the Abolitionist Movement but provides an in-depth exploration of modern black protest in the post-World War II civil rights decades and continues into the late 20th century with high-profile instances of police brutality. The remainder of the course follows a chronology, beginning in 2013 with the creation of #BlackLivesMatter and the growth of a new era of black protest. In addition to high-profile incidences of police brutality, attention is given to movement dynamics as shaped by Internet social media platforms and cable news. The course also addresses the #SayHerName movement, which has highlighted police violence against black women. Issues concerning misogynoir are also covered, including black radical feminist critiques of black male patriarchy, and debates within the black community about the movement's focus. Finally, students will come away with a broad understanding of what systemic institutionalized racism is, as distinguished from incidences of racial violence by individual acts of

terrorism or white supremacist terrorist organizations.

*Note: The course is crosslisted. Credit will be granted for only one prefix.*

**Cross Listed Course(s):** AAS 2090, HIS 2090, PSC 2090

### **SOC 2500 - Deviant Behavior in Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Study the types, sources and consequences of deviance in society through a sociological lens, including the way social structure and power affect the ability to define and redefine deviant behavior.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **SOC 2600 - Art and Craft of Sociological Writing**

**Credits:** 3

**Prerequisite(s):** SOC 1010 and completion of General Studies Written Communication requirement (ENG 1009 or ENG 1010 or equivalency and ENG 1020 or ENG 1021 or equivalent)

**Description:** This course offers instruction and practice in how to write literature reviews for sociological papers with careful attention to the ASA style. Particular emphasis is placed on formats, sociological topics, locating sources, and analysis and synthesis of quantitative and qualitative information.

### **SOC 3040 - Sociology of Aging**

**Credits:** 3

**Prerequisite(s):** SOC 1010, SOC 1040 or permission of instructor

**Description:** Analyze the economic, social, political and cultural issues relevant to aging, including changes in social status, income, health care, housing, transportation and intergenerational relationships.

*Note: Credit will be granted for only one prefix: HON or SOC.*

**Cross Listed Course(s):** HON 3040

### **SOC 3080 - Social Action Through Art**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or Permission of instructor

**Description:** This course examines the ways in which sociological concepts and theories relate to the visual arts in contemporary social life. The course emphasizes the various contexts in which visual arts are used to create social integration and social change in small and large groups. In addition, the content of the course provides insight about ways that practitioners may apply sociological principles to create art-related ventures for public and private industries.

*Note: Credit will be granted for only one prefix: SOC or HON.*

**Cross Listed Course(s):** HON 3080

### **SOC 3090 - Urban Sociology**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** Trace the history and development of modern urban

centers, and explore the dynamic ways power structures, social organization, and social and cultural change affect urban life.

### **SOC 3100 - Death and Dying**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine the attitudes, customs and institutions related to death, dying, and bereavement from the perspective of the individual, cultural norms and values, and established social institutions.

### **SOC 3140 - The Black Community**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or AAS/SOC 2000, or permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course relates fundamental concepts and theories of sociology and African American studies to the study of the Black community through an analysis of the educational, political, religious, economic and family dimensions. It emphasizes local, national and international Black communities. Classic and contemporary Black community studies are examined.

*Note: Credit will be granted for only one prefix: AAS, SOC, or SWK.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3300, SWK 3140

### **SOC 3160 - Work and Occupations**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of the instructor

**Description:** Analyze the evolving technological, demographic, and socio-cultural context of work, including the nature of work, labor force trends, and the factors linked to occupational processes and outcomes.

### **SOC 3200 - Asian American Experiences**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010

**Description:** This course critically reviews Asian American history and examines its relevance to contemporary issues in the U.S. It employs an interdisciplinary approach to examine the intersectionality of power, race, class, gender, and internal marginalization in shaping Asian American experiences. Topics include: racial formation of Asian American ethnic identities; historical roots of discrimination and anti-Asian violence (with special topics on Asian American women and Asian Americans in Colorado); negotiation of Asian American identities and culturally distinctive coping strategies; the myth and consequences of "Model Minority"; the relevance of the "Sojourner Hypothesis" in the 21st century; and generations of Asian American social movements aiming at achieving equality and justice for all.

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** ANT 3335

### **SOC 3220 - Prejudice and Discrimination**

**Credits:** 3

**Prerequisite(s):** SOC 1010, GWS 1001, AAS 1010 or permission of instructor, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy

**Description:** Explore the origins and characteristics of bias, prejudice and discrimination in society; social constructions of race, ethnicity, and gender; and the impact of social forces on social structure, institutions, and access to life opportunities.

*Note: Credit will be granted for only one prefix: AAS, SOC, or GWS.*

**University Requirement(s):** Multicultural

**Cross Listed Course(s):** AAS 3220, GWS 3220

### **SOC 3230 - Bodies and Embodiment**

**Credits:** 3

**Description:** Students in this course examine multiple interdisciplinary discourses about gendered, sexed, raced, classed, and able bodies, beginning with Simone de Beauvoir's *The Second Sex*. Through discussion, lecture and critical evaluation of key theories in Body and Embodiment Studies (by Michel Foucault, Judith Butler, Susan Bordo, bell hooks, and Iris M. Young) students in this course explore the inscribed, as well as the lived, body--bodies that are gazed at, desired, fashioned, heard, and eroticized. In order to historically situate these discourses, the body is presented as a social construct that is controlled and manipulated but that also has unique experiences which cannot be verbalized and/or managed.

*Note: Credit will be granted for only one prefix: ITP, SOC, or GWS.*

**Cross Listed Course(s):** ITP 3230, GWS 3230

### **SOC 3240 - Poverty and Inequality**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine political, economic and social factors that contribute to and perpetuate urban and rural poverty in America and globally. Analyze poverty programs and their outcomes for the poor.

### **SOC 3250 - Hip-Hop Culture and Rap Music**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or ENG 1020

**Description:** This course seeks to examine the long-standing cultural warfare that exists among core elements of Hip-Hop culture and the impact such challenges have on gender and social identities. Students will think critically about Hip-Hop music beyond the scope of entertainment through the examination of literature, films, and music that provide interdisciplinary discourse on Hip-Hop in our society.

**Cross Listed Course(s):** AAS 3920, HIS 3920, MUS 3895

### **SOC 3280 - Queer Theory**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or GWS 1200

**Description:** This course surveys a broad array of scholarship in queer theory, as well as applications of queer theory in a variety of

academic fields to explore practices, identities, and communities as well as the cultural construction of gender and sexuality.

*Note: Credit will be granted for only one prefix: SOC or GWS.*

**Cross Listed Course(s):** GWS 3280

### **SOC 3320 - Sociological Theory: Past and Present**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** This course consists of an analysis of the major sociological theories ranging from classical theories, to more contemporary, modern, and postmodern theories. It takes a comparative approach, emphasizing a critical understanding of the ever-changing historical, social, and cultural context in which each theoretical perspective developed.

### **SOC 3350 - Self and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** This course focuses on the relationship between self and society. It emphasizes how social structure, social process, and elements of culture have shaped and continue to shape our identity, perception, ideas, interaction, and behavior.

### **SOC 3360 - Analyzing Talk and Interaction**

**Credits:** 3

**Description:** Face-to-face interaction is a defining feature of human behavior. It is where language, bodily movement, and other modalities of expression become socially enacted as talk. Through this course, students collect and prepare data to examine this special site of human existence, focusing on how people coordinate and situate their language and bodies within a richly structured social, cultural, and material world.

**Cross Listed Course(s):** ANT 3520, COMM 3120

### **SOC 3400 - Child and Adolescent Socialization**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Explore how social structures and social institutions influence the way we define, raise, and educate children and adolescents in the United States and other global cultures.

### **SOC 3410 - The Family and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** A sociological analysis of the changing nature of the family within the broader context of a rapidly-changing society.

### **SOC 3420 - Education and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Analyze education as a social institution, including its

goals, structure, staffing, funding and outcomes. Investigate the relationship among education, other social institutions and social change, as well as issues regarding education in the U.S.

### **SOC 3430 - Gender and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or GWS 1001; or Permission of instructor

**Description:** Explore what it means to live gendered lives in a gender-conscious society in which cultural, political and economic forces intersect with race, ethnicity, class, age, sexuality and other social positions to affect the self, our opportunities and our life chances.

*Note: Credit will be granted for only one prefix: SOC or GWS.*

**Cross Listed Course(s):** GWS 3350

### **SOC 3440 - The Black Family**

**Credits:** 3

**Prerequisite(s):** AAS 1010 or SOC 1010 and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides an in-depth exploration of the Black family as a social institution. It emphasizes the historical roots of the Black family and how the African influence is still enmeshed in the functioning of the family in modern society. It examines the factors responsible for the ability of the Black family to meet the challenge of a changing society.

*Note: Credit will be granted for only one prefix: AAS or SOC.*

**Cross Listed Course(s):** AAS 3550

### **SOC 3460 - Sociology of Sexuality**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** This course is a survey of historical, cultural, and social aspects of human sexuality. The interplay between sex and society will be the major focus. Cross-cultural and historical analysis of sexual values and behavior will be examined. Competing and conflicting sexual value systems in contemporary societies will be analyzed. Other topics include: sexual scripts, sexual deviance and social control, sexual socialization processes, and the social bases of sexual dysfunction.

*Note: Credit will be granted for only one prefix: GWS or SOC.*

**Cross Listed Course(s):** GWS 3560

### **SOC 3470 - The Chicano Family**

**Credits:** 3

**Prerequisite(s):** CHS 1000, SOC 1010, or permission of instructor; and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy.

**Description:** This course provides an in-depth analysis of the Chicano family as a social institution. The course covers the social and economic history of the Chicano family in the Southwest and examines contemporary patterns of urban Chicano family life in a changing society.

*Note: Credit will be granted for only one prefix: CHS or SOC.*

**Cross Listed Course(s):** CHS 3210

### **SOC 3490 - Queer Sexualities and Identity**

**Credits:** 3

**Prerequisite(s):** ENG 1020, SOC 1010, or GWS 1200; or permission of instructor

**Description:** This course explores the various ways lesbian, gay, bisexual, transgender, queer, intersex, asexual, and other sex/gender minorities represent themselves vis-a-vis the social construction of identity. The course analyzes the general strategies lesbian, gay, bisexual, transgender, queer, intersex, and asexual (LGBTQIA) individuals (and their communities) utilize to self-identify, as well as resist simplistic notions of self in a post-modern context. We explore issues of queer self-presentation and performance in relation to the intersections between queer identity and race/ethnicity, class, and nationality, as well as social control and power and privilege.

*Note: Credit will be granted under one prefix only: GWS or SOC.*

**Cross Listed Course(s):** GWS 3490

### **SOC 3500 - Criminology**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Analyze the nature, causes and treatment of crime and delinquency from a sociological perspective.

### **SOC 3510 - Juvenile Delinquency**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine the universality and variability of youth misconduct and delinquency, including youth subcultures, gangs, substance abuse, the juvenile justice system, and the effects of child abuse.

### **SOC 3520 - Drugs and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine the socio-historical factors that affect trends in drug, use, abuse, and policy, and explore the social and physiological causes and consequences of legal and illegal drug use.

### **SOC 3550 - Sociology of Law**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine the interplay between social forces and law, and explore how socio-cultural factors affect legislative and enforcement processes.

### **SOC 3560 - Sociology of Social Control**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** A sociological study of social control investigates how we prevent people from breaking societal rules or norms. This course examines how norm-breaking behavior is labeled as good or bad, how these definitions vary at different times and in different places, and how they are reinforced or challenged. How some groups of people have the power to shape definitions of deviance and control others with those definitions is also assessed. Additionally, students in this course both examine and evaluate the consequences of this labeling process, how people come to develop a deviant identity, and what that means to them in the course of their daily lives.

### **SOC 3590 - Social Statistics**

**Credits:** 3

**Prerequisite(s):** MTH 1210 or permission of instructor

**Description:** This course covers descriptive and inferential statistics and their application to social phenomena. It focuses on statistical significance, measures of association, and the use of SPSS to analyze data.

### **SOC 3600 - Research in the Social Sciences**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** This course is an introduction to research in the social and behavioral sciences. It emphasizes student experience in the actual application of a variety of modern social scientific data-gathering, interpretation and reporting techniques.

### **SOC 3650 - Contemporary Social Trends: Variable Topics**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** An examination of trends and/or issues in contemporary society, using the sociological perspective. Each section addresses a separate issue or development.

*Note: This course may be repeated for credit under different topics.*

### **SOC 3660 - Poverty, Race and Gender**

**Credits:** 3

**Prerequisite(s):** SWK 1010 or permission of instructor

**Description:** This course introduces the student to the relationship between race, gender and poverty and examines the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors are explored in detail. The differences between prevailing stereotypes and current realities are highlighted.

*Note: Credit will be granted for only one prefix: CHS, GWS, SOC, or SWK.*

**Cross Listed Course(s):** CHS 3660, GWS 3660, SWK 3660

### **SOC 3710 - Politics and Power**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Analyze power structures, decision-making, and interrelationships among political and other social institutions locally

and globally; and examine the social consequences of various political structures.

### **SOC 3730 - Media and Society**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Analyze media as a dynamic force in social, political and economic life that influences both personal and collective behavior.

### **SOC 3750 - Social Change**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** This course is an analysis of the alterations in patterns of culture, social systems and social behavior over time. A variety of theoretical perspectives will be used as a basis for understanding these changes. Factors that contribute to as well as those that inhibit change will be analyzed.

### **SOC 3770 - Society and the Environment**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** This course explores the relationship between humans in social groups and their effect on the natural environment. A variety of social theories are used to analyze these effects. Proposals for implementing change are evaluated from a sociological perspective.

### **SOC 3780 - Gender and Disaster**

**Credits:** 3

**Description:** This course analyzes gender's shaping global development and disaster vulnerability by focusing on the experiences of girls and women before, during, and after disastrous events. It examines intersecting patterns of vulnerability and response based on gender, class, race/ethnicity, age, nationality and other factors. Students examine gender-focused case studies from developed and developing societies and investigate the practical implications of gender-sensitive sociology of disaster.

*Note: Credit will be granted for only one prefix: ANT, GWS, or SOC*

**Cross Listed Course(s):** ANT 3361, GWS 3780

### **SOC 3800 - Health and Healers**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Analyze health care systems and their effects on individuals and societies, using multiple models and perspectives.

### **SOC 3810 - Population Issues: Life, Death and Migration**

**Credits:** 3

**Prerequisite(s):** SOC 1010

**Description:** This course is designed to introduce students to the study of population change and its consequences. The intention of the

course is to examine population trends, issues and policies with an emphasis on the United States. Topics include fertility, mortality, migration, urbanization, family, gender, ethnicity, aging, and social change as well as the practical use of demography.

*Note: Credit will be granted for only one prefix: HON or SOC.*

**Cross Listed Course(s):** HON 3813

### **SOC 3830 - Sociology of Mental Disorders**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or permission of instructor

**Description:** Examine the ways in which social definitions and demographic characteristics intersect to produce variations in the diagnosis and treatment of mental illness.

### **SOC 3910 - Sociology of Religion**

**Credits:** 3

**Prerequisite(s):** SOC 1010 or Permission of instructor

**Description:** Explore religion through a sociological perspective and examine its meaning for individuals as well as its connections to social status, political and economic power, and social change.

### **SOC 3920 - Gender Politics of Health**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or SOC 1010 or PSY 1001

**Description:** This course focuses on health issues specific to women and the challenges historically faced by women in the health care arena. Students will learn about the role of patriarchal medical mythologies that exist throughout various cultures in the oppression of women, especially minority women, and how women have reclaimed healing, health, and communities of medical knowledge production. This course specifically explores feminist, physiological, psychological, and sociological factors in women's health within a global context.

*Note: Credit will be granted for only one prefix: PSY, SOC, GWS, or ITP.*

**Cross Listed Course(s):** PSY 3920, GWS 3920, ITP 3920

### **SOC 4200 - Social Stratification**

**Credits:** 3

**Prerequisite(s):** SOC 1010 and 6 hours of upper division sociology or permission of instructor

**Description:** Examine the relationships within and among stratification systems, the distribution of scarce resources, and the consequent effects on social identity and social mobility.

### **SOC 4240 - Women and Violence**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or PSC 1020 or SOC 1010 or permission of instructor

**Description:** Students analyze key patterns and trends in violence perpetrated by and against women, with special focus on the diverse experiences of women in the United States. Students will investigate historical, contemporary, sociopolitical, and cross-cultural patterns in causal factors, perpetuation, prevention, intervention and treatment

relative to violence and women. Topics will include sexual violence, domestic violence, family violence, cyber-violence, women in prison, women on death row, and women as victims of violence, among others.

*Note: Credit will be granted for only one prefix: CJC, GWS, PSC, or SOC.*

**Cross Listed Course(s):** CJC 4240, GWS 4240, PSC 4240

### **SOC 4350 - Advanced Seminar in Sociological Theory: Variable Topics**

**Credits:** 3

**Prerequisite(s):** Permission of instructor

**Description:** Content varies, but each course involves intensive study and critical analysis of major sociological theories, such as those of Weber, Durkheim, Marx, Simmel, Mannheim, C. Wright Mills, and Parsons; or of selected theoretical systems in contemporary or classical sociology.

*Note: This course may be repeated for credit under different topics.*

### **SOC 4600 - Advanced Survey Research**

**Credits:** 3

**Prerequisite(s):** SOC 1010, SOC 2600, SOC 3320, SOC 3600

**Prerequisite(s) or Corequisite(s):** SOC 3590

**Description:** This course is a continuation of SOC 3600 - Research in the Social Sciences. It focuses on the application of advanced quantitative research techniques, including individual and task-group assignments intended to develop students' skills in designing, organizing, computer coding, and doing computer-assisted analysis of selected research projects.

**University Requirement(s):** Senior Experience

### **SOC 4700 - Advanced Field Internship**

**Credits:** 3

**Prerequisite(s):** SOC 2010 and upper-division standing

**Description:** An advanced level supervised in-service field experience in the broad area of social concern and the "urban scene," conducted with the cooperation of participating agencies and institutions.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### **SOC 4710 - Advanced Qualitative Methods**

**Credits:** 3

**Prerequisite(s):** SOC 1010, SOC 2600, SOC 3320, SOC 3600

**Prerequisite(s) or Corequisite(s):** SOC 3590

**Description:** This capstone course is a continuation of SOC 3600 - Research in the Social Sciences. It focuses on the application of advanced qualitative research techniques, such as ethnography, participant-observation, unobtrusive research, unstructured interviews, and content analysis. Students gain hands-on experience

in various qualitative methods and analysis techniques while carrying out a research project related to their area of interest.

**University Requirement(s):** Senior Experience

## **Spanish**

### **SPA 1000 - Conversational Spanish for Travel I**

**Credits:** 3

**Description:** This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for personal travel.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1002 - Conversational Spanish for Law Enforcement I**

**Credits:** 3

**Description:** This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the law-enforcement professions.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1003 - Conversational Spanish for Law Enforcement II**

**Credits:** 3

**Prerequisite(s):** SPA 1002

**Description:** This course is a continuation of SPA 1002 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the law-enforcement professions.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1004 - Conversational Spanish for Medical Professions I**

**Credits:** 3

**Description:** This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the medical professions.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1005 - Conversational Spanish for Medical Professions II**

**Credits:** 3

**Prerequisite(s):** SPA 1004

**Description:** This course is a continuation of SPA 1004 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the medical professions.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1006 - Conversational Spanish for School Personnel I**

**Credits:** 3

**Description:** This course is designed for the student who wants to

acquire a basic knowledge of conversational Spanish for the school environment.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1007 - Conversational Spanish for School Personnel II**

**Credits:** 3

**Prerequisite(s):** SPA 1006

**Description:** This course is a continuation of SPA 1006 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the school environment.

*Note: It does not fulfill the prerequisite requirements for any Spanish 2000-level course.*

### **SPA 1010 - Elementary Spanish I**

**Credits:** 5

**Description:** This is a basic course in Spanish, with emphasis primarily on pronunciation, speaking, and understanding supplemented by grammar, readings and writing.

**General Studies:** Oral Communication

### **SPA 1020 - Elementary Spanish II**

**Credits:** 5

**Prerequisite(s):** SPA 1010 or the equivalent high school or transfer experience

**Description:** SPA 1020 is a basic course in Spanish designed to further the mastery of the basic grammar of Spanish, to provide essential vocabulary, and to familiarize the student with the cultures of the Spanish-speaking world. These skills are studied through and applied to reading, writing, listening, and speaking.

**General Studies:** Arts and Humanities, Global Diversity

### **SPA 1800 - International Spanish Year I**

**Credits:** 1-15

**Description:** This variable credit course is designed for first-year students learning Spanish in a study abroad setting. The course will recognize an approved, study-abroad, educational experience in Spanish speaking, comprehension, reading, and writing.

### **SPA 2010 - Intermediate Spanish I**

**Credits:** 3

**Prerequisite(s):** SPA 1020 or placement or two years of high school Spanish or its equivalent with a grade of "C" or better

**Description:** This course continues the sequence of SPA 1010 and SPA 1020 and is the first of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in Spanish and will include a variety of interactive activities designed to help students develop their knowledge of Spanish and their ability to use it productively in situations of communication.

### **SPA 2020 - Intermediate Spanish II**

**Credits:** 3

**Prerequisite(s):** SPA 2010 or equivalent

**Description:** This course is a continuation of SPA 2010 and is the second of a two-semester, integrated, second-year sequence. The course focuses on further skills development in listening, speaking, reading, and writing, with emphasis on the use of functional, communicative language for oral and written proficiency and on cultural competency. Class is conducted mostly in Spanish and will include a variety of interactive activities designed to help students develop their knowledge of Spanish and their ability to use it productively in situations of communication.

### **SPA 2110 - Spanish Reading and Communication I**

**Credits:** 3

**Prerequisite(s):** SPA 1020 with a grade of "C" or better or placement or two years of high school Spanish or its equivalent

**Description:** This intermediate course introduces increasingly complex readings and promotes the development of oral and written proficiency. The course is designed to afford the student the necessary practice to communicate with ease in Spanish. Emphasis lies on vocabulary building, reading of cultural material, and communication skills.

### **SPA 2120 - Spanish Reading and Communication II**

**Credits:** 3

**Prerequisite(s):** SPA 2110 or equivalent, or permission of instructor

**Description:** This intermediate course is a continuation of SPA 2110. It is designed to review, widen, and strengthen the knowledge of language structures as a basis for more advanced work in speaking, understanding, reading, and writing in Spanish.

### **SPA 2340 - Intermediate Spanish for the Heritage Speaker**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or equivalent or permission of instructor

**Description:** This is an intermediate-level course for the heritage and bilingual speaker of Spanish who has developed speaking ability outside of the classroom with little training in the formal components of the language. The course focuses on the practice and use of standard oral and written Spanish structures found in cultural, literary, journalistic and media platforms. Particular attention is given to the development of language skills necessary for communication in social or professional settings, and to discussions on specific cultural issues faced by the Spanish speaker. This course may be taken by Spanish majors or minors, or non-majors or minors in lieu of SPA 2320.

### **SPA 2750 - Intensive Intermediate Spanish Grammar Review**

**Credits:** 3

**Prerequisite(s):** SPA 2110 with "C" or higher, or equivalent, or departmental permission

**Description:** SPA 2750 is an intensive transition course between the intermediate and advanced Spanish writing and grammar courses. It

provides comprehensive grammar review and writing practice by building on topics covered in lower-level Spanish courses, and approaching them in a more detailed manner. The course introduces additional aspects of the Spanish language, not previously covered in preceding courses. The foundations of grammar and their expression in oral and written communication are especially emphasized. The course is designed for students who wish to pursue further studies in Spanish, and is especially useful to proficient speakers (native, heritage, and second-language learners) who have had limited exposure to the formal study of language structure.

### **SPA 2800 - International Spanish Year II**

**Credits:** 1-15

**Prerequisite(s):** One year of college Spanish or equivalent

**Description:** This variable credit course is designed to recognize second year study of Spanish language and culture in an approved study-abroad setting.

### **SPA 3050 - Cultural Crossroads: France, Germany, Spain**

**Credits:** 3

**Prerequisite(s):** ENG 1020

**Description:** This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations.

*Note: Students can get credit for only one prefix.*

**Cross Listed Course(s):** FRE 3050, GER 3050, HON 3050, MDL 3050

### **SPA 3100 - Spanish Terminology for the Bilingual Classroom**

**Credits:** 3

**Prerequisite(s):** Two years of college Spanish, its equivalent, or Permission of the instructor

**Description:** This is a practical course designed to help students with the Spanish structures and terminology used in the different areas of instruction.

### **SPA 3110 - Advanced Conversation**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or equivalent, or permission of instructor

**Description:** This is an advanced course to broaden and strengthen the student's conversational skills, emphasizing current topics in the Hispanic world. There is a service-learning component where students apply the material from class in a real world setting and reflect on their service experiences.

*Note: Some sections of this course may be taught as Service Learning.*

### **SPA 3140 - Advanced Composition**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or equivalent, or permission of instructor

**Description:** This course is designed to reinforce and develop further the student's abilities in composition tasks that reflect the kind of writing students are generally asked to perform as Spanish majors. Classes are conducted in Spanish.

### **SPA 3150 - Spanish Phonetics: Theory and Practice**

**Credits:** 3

**Prerequisite(s):** Two years of college Spanish or equivalent, or Permission of instructor

**Description:** This course in Spanish phonology is aimed at improving students' pronunciation and introducing them to the field of descriptive linguistics.

### **SPA 3200 - Culture and Civilization of Spain**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or equivalent, or permission of instructor

**Description:** This course is an advanced Spanish conversational approach to the understanding of the traditions and history of Spain and the national character as expressed in everyday life. It is based on a reading-lecture discussion format. Oral presentations and a term paper are required. This class is conducted in Spanish.

### **SPA 3210 - Spanish-American Culture and Civilization**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or permission of instructor

**Description:** This course is an advanced Spanish conversational approach to the chief cultural characteristics of the Hispanic-American world. It is based on a reading-lecture-discussion format. Oral presentations and a research paper are required. Conducted in Spanish.

### **SPA 3220 - Folklore and Culture of the Mexican Southwest**

**Credits:** 3

**Prerequisite(s):** SPA 2020, SPA 2120, or equivalent, or permission of department

**Description:** This course is designed to acquaint the students with the culture, folklore and civilization of the Mexican American in the Southwest. The introductory lectures will deal with the Spanish and Indian heritage. The main concentration of the course is the culture and folklore developed since the arrival of Juan de Oñate to the present.

**University Requirement(s):** Multicultural

### **SPA 3250 - Introduction to Literary Studies in Spanish**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or equivalent, or permission of instructor

**Description:** This course is designed to introduce the students to the study of literature in the Spanish language. Emphasis is placed on reading and critical analysis of representative works, main literary trends and terminology. Conducted in Spanish.

### **SPA 3340 - Advanced Spanish for the Heritage Speaker**

**Credits:** 3

**Prerequisite(s):** SPA 2320 or SPA 2340 or permission of instructor

**Description:** This course is designed specifically for the heritage or bilingual learner of Spanish who brings strong proficiency and literacy skills in Spanish. The course focuses on the development of advanced communicative competence in reading, writing, speaking, listening, and viewing, as well as on understanding Hispanic cultures, issues of identity of the heritage speaker in the U.S., language variation, customs, geography, history, and current events. Students will gain linguistic and oral proficiency in order to develop, evaluate, compare and express ideas critically in both oral and written formats on varied topics and themes. This course is open to the heritage learner with, at least, two years of formal training in Spanish.

### **SPA 3400 - Survey of Spanish Literature I**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or equivalent, or Permission of instructor

**Description:** This course is a general survey of the literature of Spain from the Middle Ages through the romantic era. Reading of representative works, lecture on biography, criticism and recitation will be included. Conducted in Spanish.

### **SPA 3410 - Survey of Spanish Literature II**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or equivalent, or Permission of instructor

**Description:** This course presents Spanish literature since 1870, including post-romanticism, realism, naturalism, the generation of 1898, the genero chico, and more recent works. Conducted in Spanish.

### **SPA 3510 - Survey of Latin American Literature**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or equivalent, or permission of instructor

**Description:** This course is designed to introduce the student to the most important works in Latin American literature from the late fifteenth century to the late nineteenth century. This course is conducted in Spanish.

### **SPA 3600 - Latin American Cinema**

**Credits:** 3

**Prerequisite(s):** SPA 2120 or permission of instructor

**Description:** This 3000-level course, a survey of recent Latin American film, is interdisciplinary and crosscultural, emphasizing the socio-economic and political issues (race, gender, sex, and identity issues) central to the development of Latin American cinema. This

course is suitable for nonspeakers of Spanish and is designed to introduce students to the cinematic work of a number of Latin American film artists or movements by discussing them from a variety of perspectives (narrative, rhetoric, aesthetics, film language). This course is designed to heighten perceptual skills by viewing films and increase critical understanding of the ways films function as visual discourse. Students in the SPA major program at the time the course is taken will complete all work in Spanish.

### **SPA 3610 - Spain: Culture Through Film**

**Credits:** 3

**Prerequisite(s):** SPA 2120, or permission of the department

**Description:** This course is an advanced, thematic seminar on topics relevant to contemporary Spanish culture, as expressed through representative works of film and other visual media. The course is to be conducted in Spanish.

### **SPA 3800 - International Advanced Spanish**

**Credits:** 1-15

**Prerequisite(s):** upper-division standing in Spanish or equivalent

**Description:** This course is designed to recognize upper-division study in language, culture and literature in a study-abroad setting. This advanced study in Spanish uses a variety of methods and includes reading, writing and discussion seminars in Spanish.

### **SPA 4010 - Advanced Spanish Writing and Grammar I**

**Credits:** 3

**Prerequisite(s):** SPA 3140 or equivalent, or Permission of instructor

**Description:** This course is designed to afford the student of Spanish an overall acquaintance with contemporary grammatical analysis and terminology, in order to promote and enhance the student's sensitivity regarding the syntactical structure of the Spanish oral and written modes of expression. Classes are conducted in Spanish.

### **SPA 4015 - Introduction to Spanish Translation I**

**Credits:** 3

**Prerequisite(s):** SPA 3140 with a grade of at least a "B" or Permission of instructor

**Description:** This course is an introduction to the principal topics in the discipline of translation. The student translates a variety of texts from Spanish to English and from English to Spanish, discusses and critiques translations in class, examines various historical and theoretical concepts of translation, and analyzes grammatical, lexical and cultural issues faced by translators. Student is expected to be fluent in both Spanish and English.

### **SPA 4020 - Advanced Spanish Writing and Grammar II**

**Credits:** 3

**Prerequisite(s):** SPA 4010 or equivalent, or Permission of instructor

**Description:** This course is an intensive study of Spanish idiomatic expressions and selected vocabulary to strengthen the student's language skills, with emphasis on written style and on the understanding of the Spanish syntax. The main purpose of this course

is to enable the student to manipulate the target language with accuracy, elegance and assertiveness. Classes are conducted in Spanish.

### **SPA 4025 - Introduction to Spanish Translation II**

**Credits:** 3

**Prerequisite(s):** SPA 4010 and SPA 4015 with grades of "B" or better or permission of instructor

**Description:** This course further explores the principal topics in the discipline of translation. Students translate (Spanish to English and English to Spanish) challenging "real-life" texts from such diverse fields as law, medicine, marketing, human resources, literature and poetry. Class sessions focus on discussion of assigned translations, examination of various historical and theoretical concepts of translation, and analysis of grammatical, lexical, and cultural issues faced by translators. Students are expected to be fluent in both Spanish and English.

*Note: Some sections of this course may be taught as Service Learning.*

### **SPA 4110 - Contemporary Spanish Literature**

**Credits:** 3

**Prerequisite(s):** SPA 3250

**Description:** This course involves reading and analysis, through discussion and writing, of representative works of contemporary Spanish literature. The course affords students an opportunity to explore changes in cultural development in Spain from the end of the Civil War until the present. This course is conducted in Spanish.

### **SPA 4120 - Contemporary Latin-American Literature**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or equivalent, or permission of instructor

**Description:** This is a course in which the student will be critically reading and discussing the major works of contemporary Spanish American authors in order to appreciate their literary and cultural values and to participate in a meaningful language experience. Conducted in Spanish.

### **SPA 4130 - Contemporary Mexican Literature**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or equivalent, or Permission of instructor

**Description:** This course offers a panoramic view of Mexican literature. It will examine the articulation of diverse social and cultural questions, as well as the ways in which Mexican writers represent themselves and their cultural heritage through literary texts. The student will read and discuss representative works of 20th century Mexican writers. Conducted in Spanish.

### **SPA 4200 - Spanish-American Essay: 19th and 20th Centuries**

**Credits:** 3

**Prerequisite(s):** SPA 3250 or Permission of instructor

**Description:** This course presents, discusses, and analyzes the most important literary work of representative 19th and 20th century

Spanish-American essayists. The course exposes the student to the thought and stylistic modes found in the intellectual production of the selected prominent figures to be studied. Conducted in Spanish.

**University Requirement(s):** Senior Experience

### **SPA 4310 - History of the Spanish Language**

**Credits:** 3

**Prerequisite(s):** SPA 3140 and SPA 4010 or SPA 4020; completion of General Studies requirements; and senior standing.

**Description:** This is an introductory course in Spanish philology aimed at improving students' knowledge of Spanish sounds, forms and word order, with the focus on how the Spanish language began and has changed through the centuries.

**University Requirement(s):** Senior Experience

## **Special Education Courses**

### **SED 2200 - Diversity and Multicultural Education**

**Credits:** 3

**Description:** This course is designed to increase student awareness of the values and beliefs, traditions, identifiers, and contributions of African Americans, Asian Americans, Hispanic Americans, and Native Americans. Historical, cultural, and individual variations, including socio-economic status, gender, sexual orientation, language background and disabilities will be investigated to help develop respect for all students, parents, and educators in school settings. Students will discover how personal attitudes may affect expectations and decisions in the elementary, secondary, and special education school settings.

**University Requirement(s):** Multicultural

### **SED 2700 - Social/Emotional Development and Disorders**

**Credits:** 3

**Description:** This course provides an overview of the major concepts and historical antecedents of special education services for children and youth with social, emotional, and behavioral difficulties. Teacher candidates will develop an understanding of basic concepts related to the social, emotional, and behavioral development of children and youth, and the concepts related to disordered behavior.

### **SED 3050 - Assessment and Instructional Planning**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This course focuses on making informed decisions on the selection, use, and interpretation of formal and informal methods for the assessment of students with disabilities. Teacher candidates must complete a series of special education assessments and reports during this course.

### **SED 3100 - Communication Supports for Inclusive Classrooms**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** Communication is the foundation for all learning. In this course, participants will consider natural and meaningful communicative engagement in inclusive settings and will create communication plans for students with communication challenges. All modes of communication and all language levels will be addressed. There will be a focus on the communication needs of students with autism and significant support needs (SSN) because the communication plan for these students may require the most collaboration for successful inclusion.

### **SED 3250 - Effective Behavioral Support Systems**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This course is designed to introduce the principles of applied behavior analysis and behavior modification. The use of systematic behavioral assessments, functional behavior assessment plans, behavior intervention plans, and classroom intervention strategies are emphasized. Teacher candidates are prepared to apply Universal Design for Learning (UDL) principles in diverse contexts that include both general and special education classes.

**Cross Listed Course(s):** ALP 4250

### **SED 3300 - Introduction to Responsive Pedagogy**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** SED 3600

**Description:** In this course, pre-service teachers will work collaboratively to meet the diverse needs of all learners. Responsive pedagogy connects the learner and the content in meaningful, respectful and effective ways. Participants will examine the principles of collective efficacy and collaboration and practice using the skills necessary to create lessons and learning environments based on student-centered instruction and inclusive and trauma-informed practices.

### **SED 3550 - Introduction to Inclusive Supports and Services for Students with Significant Needs**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This course introduces pre-service teachers to inclusive education for students with significant and diverse needs. The focus is on collaboratively creating meaningful learning environments in schools and communities and providing supports for authentic engagement across people and settings.

### **SED 3600 - Exceptional Learners in the Classroom**

**Credits:** 3

**Description:** This course provides a survey of various exceptionalities, ranging from moderate to severe. Information about child abuse and medical conditions, and their possible effects on student learning and behavior is provided. Teacher candidates are introduced to the special education processes, including the development of individualized education plans from a general education teacher perspective. Principles of Universal Design for Learning (UDL) curriculum accessibility issues are addressed.

*Note: Credit will be granted for only one prefix: SED or HON.*

**Cross Listed Course(s):** HON 3600

### **SED 3625 - Instructional Methods for Supporting Students with Disabilities**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** SED 3600

**Description:** This course will introduce the pre-service teacher to components of effective instructional methods and strategies related to supporting the academic, behavioral, and social needs of students with disabilities. Topics explored during the class will focus on the history of special education in schools and learning theories related to becoming a teacher, supporting the behavioral needs of students through setting up your classroom structure and management system, lesson planning, and creating inclusive environments within schools.

### **SED 3650 - Understanding Special Education Law and the IEP**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This course provides an overview of special education law and the development of individualized education plans. The course includes a discussion of the history of special education law as well as current laws and policies that impact students with disabilities in the K-12 school system. The course reviews the process of special education including referral, assessment/evaluation, identification, IEP development, and procedural safeguards. Communication and collaboration in the development and implementation of the IEP will also be discussed. Using a case study, students will develop an Individual Education Plan (IEP) for a student with a disability in a K-12 setting.

### **SED 3675 - Transition Planning for Inclusive Adulthoods**

**Credits:** 3

**Prerequisite(s):** SED 3600; SED 3650

**Description:** This course provides an in-depth understanding of transition services for students with exceptionalities from childhood to adulthood. Course content focuses on an in-depth investigation of the provision of transition services in the context of comprehensive secondary education services and inclusive environments. Topics in this course include transition-focused Individual Education Program (IEP) development, self-determination and self-advocacy, social supports and relationship building, interagency collaboration, transition assessment, and independent living, vocational, and post-secondary education strategies. Teacher candidates gain the knowledge base and skills necessary to successfully manage the transition services of their future students that will lead them to become contributing members of society and valued members of their communities.

### **SED 3700 - Educational and Medical Aspects of Disabilities**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Description:** This course provides an overview of the multidisciplinary needs of students with physical, communicative,

cognitive, and sensory disabilities. Emphasis is placed on explaining the impact of medical needs on educational experiences. Principles of Universal Design for Learning (UDL) will be addressed. Teacher candidates must complete a 15-hour field experience in an assigned public school that provides services for students with severe disabilities.

### **SED 3750 - Assessment, Methods, and Assistive Technology for Severe Disabilities**

**Credits:** 3

**Description:** This course is designed to introduce pre-service teachers to assessment, curriculum and instruction for students with severe disabilities. Focus will be given to including students in their neighborhood schools, homework, and community. The course also emphasizes the selection and efficacy of assistive device technologies. A minimum 30-hour, field-based experience is required.

### **SED 3820 - Elementary Literacy: Intervention and Instruction for Students with Diverse Learning Needs**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Corequisite(s):** SED 3821

**Prerequisite(s) or Corequisite(s):** SED 3650

**Description:** Within this course, students will learn about the components of literacy with a focus on phonemic awareness, phonics, fluency, vocabulary, and comprehension as taught in elementary classrooms. Assessment data is used to design lesson plans and apply scientifically-based interventions to address the needs of students with literacy challenges, including dyslexia. A direct-instruction teaching approach based on best practices is a focus. The course has a co-requisite of a field-based class which will include a 45-hour field-based experience with elementary level students.

**Cross Listed Course(s):** ALP 3820

### **SED 3821 - Special Education Field Experience: Teaching Students with Mild/Moderate Disabilities**

**Credits:** 1

**Prerequisite(s):** SED 3600

**Corequisite(s):** SED 3820

**Prerequisite(s) or Corequisite(s):** SED 3050

**Description:** During the mild/moderate special education field experience, students will complete 45 hours of field experience in an elementary classroom setting in order to observe elements of literacy instruction, Response to Intervention (RtI), Multi-tiered Systems of Support (MTSS), assessment, and effective behavioral support systems.

### **SED 3950 - Mathematics Instruction for Students with Disabilities**

**Credits:** 3

**Prerequisite(s):** SED 3600

**Prerequisite(s) or Corequisite(s):** SED 3650

**Description:** This course is designed to introduce effective classroom

methods and strategies for teaching, assessing, and monitoring the mathematical performance of students with disabilities within diverse classroom settings. An emphasis is placed on practical classroom techniques to facilitate, maintain, retain, and generalize skill acquisition. Computation and problem-solving techniques are studied and applied.

### **SED 4101 - Teaching Students with Significant Support Needs**

**Credits:** 1

**Prerequisite(s):** SED 3600

**Corequisite(s):** SED 4100

**Description:** This course, a corequisite of SED 4100 - Including Students with Significant Support Needs, requires 45 hours of field experience at an assigned school. Field experience work includes teaching individual intervention and small group lessons while implementing differentiated instructional practices and administering assessments/intervention related to behavior and communication for students with significant support needs.

### **SED 4200 - Reading Disabilities and Content Instruction**

**Credits:** 3

**Prerequisite(s):** SED 3820

**Description:** This course explores the nature of dyslexia and other reading/writing disabilities. Special emphasis is devoted to reading disabilities in reference to the demands of content area instruction at the secondary school level. Critical thinking, study skills, cooperative learning, and Universal Design for Learning (UDL) will be addressed within the context of improving reading and writing achievement of students with disabilities. This class has a co-requisite field course in which the students will complete a project related to literacy & study skills interventions at the secondary school level.

### **SED 4300 - Assessment and Methods for Emotional and Behavioral Disorders**

**Credits:** 3

**Prerequisite(s):** SED 3250

**Corequisite(s):** SED 4301

**Description:** This course is designed for teacher candidates to learn how to select, adapt, and use instructional interventions and strategies with students with emotional and behavioral disorders in a variety of settings. Theoretical approaches, identification, educational placement, and evaluation issues will be addressed. In addition, specific categories of disordered behavior, such as bipolar, depression, anxiety, oppositional defiant disorders, schizophrenia, and childhood psychosis, will be discussed. Teacher candidates implement these instructional practices in the co-requisite field experience.

### **SED 4301 - Special Education Field Experience: Teaching Students with Emotional/Behavioral Disabilities**

**Credits:** 1

**Prerequisite(s):** SED 3600

**Corequisite(s):** SED 4300

**Description:** This course, a corequisite of SED 4300 - Assessment

and Methods for Emotional and Behavioral Disorders, requires 45 hours of field experience at an assigned secondary school. Field experience work focuses on methods for teaching instructional and behavioral strategies to learners with disabilities to promote success in their content area classes.

### **SED 4440 - K-12 Practicum in Special Education**

**Credits:** 3 or 6

**Prerequisite(s):** SED 4050 and SED 4200; or permission of instructor

**Corequisite(s):** SED 4250 and SED 4300

**Description:** This practicum is a culminating experience that provides teacher candidates with a structured, supervised elementary and/or secondary level practicum in a special education setting for children with disabilities. A strong emphasis is placed on the importance of decision-making in diverse contexts, including numerous assessment and instructional situations using a case-based approach that will encourage integration of theory and application. The seminars are designed to address assigned topics and activities that are linked to the teaching responsibilities of the practicum.

**University Requirement(s):** Senior Experience

### **SED 4490 - Special Education Student Teaching and Seminar**

**Credits:** 6 or 12

**Prerequisite(s):** SED 4440; Teacher candidates must have successfully completed all requirements of the Special Education Licensure Program.

**Description:** This course is a full-time, special education, student teaching experience in an accredited, public or private school that provides teacher candidates responsibility for teaching an identified group of learners with exceptionalities. A minimum of eight weeks is required for 6 credits, and a minimum of 16 weeks is required for 12 credits. University supervisors provide regularly scheduled observations and seminars, as well as guidance on the development of the teacher work sample.

**University Requirement(s):** Senior Experience

## **Speech, Language, Hearing Sciences**

### **SLHS 1500 - Introduction to Communication Sciences**

**Credits:** 3

**Description:** This course introduces students to the science of communication across the lifespan, relationship of culture to communication, and the impact of communication disorders on individuals and families. Intervention and assessment options for speech, language, and hearing development are explored.

**General Studies:** Social and Behavioral Sciences

**Guaranteed Transfer:** GT-SS3

### **SLHS 1610 - American Sign Language I**

**Credits:** 3

**Prerequisite(s):** Minimum performance on the reading and writing preassessment placement test

**Description:** This course provides students with a basic

understanding of American Sign Language including conversational skills and linguistic structures. Students are also introduced to Deaf culture.

*Note: Credit will only be granted for one prefix: SLHS, EDU, or MDL.*

**Cross Listed Course(s):** EDU 1610, MDL 1610

### **SLHS 1620 - American Sign Language II**

**Credits:** 3

**Prerequisite(s):** ASL 1010 or SLHS 1610 or permission of instructor

**Description:** This course is a continuation of SLHS 1610 emphasizing expressive language as well as increasing competence with receptive language skills. The course continues to build vocabulary and familiarity with the complex grammar (morphology and syntax) of this visual language. The deaf experience and culture is integrated throughout.

*Note: Credit will be granted for only one prefix: ASL or SLHS.*

**General Studies:** Oral Communication

**Cross Listed Course(s):** ASL 1620

### **SLHS 2100 - Language Acquisition and Development**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** SLHS 1500 or PSY 1800 or permission of instructor

**Description:** This course allows students to explore theories of language acquisition and describe communication and language development patterns in infants, toddlers, preschool-age and school-age children. Students will also be introduced to early literacy development and the relationship between language and literacy. The interrelationship between linguistic, cognitive and social competencies in communicative development will be explored. Students will gain knowledge on the diversity of communicative development within the context of a pluralistic society.

*Note: Student must achieve a C or better to count towards the SLHS degree or certificate programs. Other programs may have different minimum-grade requirements.*

### **SLHS 2530 - Speech Science**

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1112 or permission of instructor

**Description:** This course provides an introduction to the nature and acoustic properties of sound and sound generation, propagation, and modification. Speech production and the characteristics of speech acoustics as they relate to typical and atypical speech production and perception will be explored. Speech production subsystems of respiration, phonation, articulation, and resonance will be examined through the analysis of acoustic data, using readily available instrumentation. Theories of speech production and perception will be introduced and explored in relation to both typical and atypical speech and voice production.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 2990 - Introduction to Health Communication**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or COMM 1100 or Permission of Instructor

**Description:** This course explores the essential connections between communication processes and human health. Different modes of communication are considered in contexts that range from one-on-one conversations to information exchange with large groups. The importance of relationships, culture, technology, and media for health practices are also explored.

*Note: Credit will be granted for only one prefix, COMM or SLHS.*

**Cross Listed Course(s):** COMM 2020

### **SLHS 3000 - Foundations of Disability Studies through Media**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** Grade of C- in SLHS 1500 or permission of instructor

**Description:** This course provides a foundation in disability studies, establishing a framework of terminology for defining disability and understanding the disability experience. Issues related to accessibility of media will also be explored. Students will critically analyze how media represents and shapes perceptions of disability groups, which include members with communication disorders, autism, or deafness as well as other sensory, physical, or cognitive disabilities.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

**General Studies:** Arts and Humanities

### **SLHS 3200 - Clinical Phonetics**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** SLHS 2100 and SLHS 2530

**Description:** Students in this course gain an understanding of the science of speech sounds and the use of the International Phonetic Alphabet as a tool for assessing speech disorders/differences and monitoring progress in therapy. Skills developed include transcription using the IPA to transcribe both typical and atypical speech, for both single words and connected speech. The course also covers the clinical concepts of articulation and phonology and provides an overview of typical speech sound acquisition and error patterns.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 3300 - Principles of Assessment and Intervention**

**Credits:** 3

**Prerequisite(s):** SLHS 2100 and SLHS 2530 or permission of instructor

**Prerequisite(s) or Corequisite(s):** SLHS 3200 or permission of instructor

**Description:** This course examines professional issues and assessment and intervention principles and practices in speech-language pathology and audiology. Students will apply their knowledge of assessment, intervention, and professional practice by engaging in application-based clinical scenarios for clients with communication disorders or differences from a variety of cultural and linguistic backgrounds.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 3530 - Anatomy and Physiology of Speech and Hearing**

**Credits:** 3

**Prerequisite(s):** BIO 1080 and BIO 1090 or permission of instructor

**Prerequisite(s) or Corequisite(s):** SLHS 2530 or permission of instructor

**Description:** This course provides students with a foundation in the structural and functional organization of the systems that support speech and hearing. The mechanisms of swallowing are also reviewed. Students explore how anatomical and physiological changes may impact sound perception and production.

*Note: Credit will be granted for only one prefix: SLHS or BIO.*

*Students must achieve a C or better to count towards an SLHS degree or certificate. Other programs may have different minimum grade requirements.*

**Cross Listed Course(s):** BIO 3511

### **SLHS 3600 - Diagnostic Audiology**

**Credits:** 3

**Prerequisite(s):** SLHS 2530

**Prerequisite(s) or Corequisite(s):** SLHS 3530

**Description:** This course reviews acoustics of the auditory system and perception of acoustic stimuli. The basic principles and techniques of hearing evaluation are presented including pure-tone, speech, immittance and advanced audiometry. Students explore audiological findings for various disorders of the auditory system.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 3980 - Internship in Speech, Language, and Hearing Sciences**

**Credits:** 1-15

**Prerequisite(s):** Major in Speech, Language, and Hearing Sciences; junior or senior status; permission of instructor

**Description:** Supervised by a faculty member within the major department, internships provide practical, hands-on experience in a professional field related to the major. Internship placements must be established prior to enrollment in this course in consultation with the Applied Learning Center.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or*

*internships@msudenver.edu.*

*Note: Variable Credit*

### **SLHS 4100 - Language Disorders and Differences**

**Credits:** 3

**Prerequisite(s):** SLHS 2100

**Prerequisite(s) or Corequisite(s):** SLHS 3300 or permission of instructor

**Description:** This course examines child language disorders and the neurological, cognitive, environmental and sociocultural factors that contribute to them. Students are introduced to the basic principles of assessment and intervention approaches designed to enhance

language/communication in children with language disorders from birth to age 21.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

**Field Trips:** Field based observations will be required.

### **SLHS 4200 - Speech Disorders and Differences**

**Credits:** 3

**Prerequisite(s):** SLHS 2100 and SLHS 3200

**Prerequisite(s) or Corequisite(s):** SLHS 3300

**Description:** Typically, more than half of a school-based speech-language pathologist's caseload consists of children with speech disorders, including disorders of speech sound acquisition, voice, and fluency. This course will provide the student with an introduction to these three areas of communication disorders and differences, with a focus on intervention.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 4300 - Senior Experience in Speech, Language, Hearing Sciences**

**Credits:** 3

**Prerequisite(s):** SLHS 1500, SLHS 2100, SLHS 2530, SLHS 3200, SLHS 3300, SLHS 3530, and SLHS 3600

**Prerequisite(s) or Corequisite(s):** SLHS 4100, SLHS 4200, or SLHS 4600

**Description:** This course serves as a capstone experience for students majoring in Speech, Language, Hearing Sciences. Students engage in an applied-learning experience in conjunction with an SLHS faculty member. The capstone concludes with submission of an original scholarly work and/or delivery of a comprehensive oral presentation to the SLHS department.

*Note: Need to be at senior status; permission of instructor or department chair required to enroll.*

*Students must achieve a C or better to count towards the SLHS degree.*

**University Requirement(s):** Senior Experience

### **SLHS 4350 - Speech-Language Pathology Assistant Methods**

**Credits:** 7

**Prerequisite(s):** SLHS 2100, SLHS 2530, SLHS 3200, SLHS 3530, SLHS 4100, and SLHS 4200 or permission of instructor

**Prerequisite(s) or Corequisite(s):** SLHS 4600

**Description:** This course allows students with an undergraduate major or equivalent coursework in speech-language-hearing sciences to gain the competencies required for employment as a speech-language pathology assistant (SLPA) in schools. The course is composed of a three-credit seminar and four-credit public school SLPA internship.

*Note: Students must have no lower than a 2.5 GPA for all pre-requisite SLHS coursework to be eligible for the course and must apply to be considered. For the fall semester cohort, students must submit all required materials to the department by the first Friday in April. For the spring semester cohort, students must submit all required materials to the department by the last Friday in October. Only complete applications will be considered.*

*Visit the department webpage for information on what the application includes: <https://www.msudenver.edu/speech-language-hearing-sciences/undergraduateprogram/>*

**University Requirement(s):** Senior Experience

### **SLHS 4530 - Neural Bases of Communication and Its Disorders**

**Credits:** 3

**Prerequisite(s):** SLHS 3530 or permission of instructor

**Description:** This course explores how the nervous system supports communication and how neurological impairments may disrupt communication. The role of the central and peripheral nervous systems in speech production and perception is reviewed along with the neurological organization of language and cognitive-communication abilities. Current research on brain-based communication disorders is considered.

*Note: Students must achieve a C or better to count towards an SLHS degree or certificate.*

### **SLHS 4610 - Aural Rehabilitation**

**Credits:** 3

**Prerequisite(s):** SLHS 2100 and SLHS 3600

**Description:** This course considers the responsibilities of interventionists for children and adults with hearing loss. Students learn about components of aural rehabilitation such as counseling, hearing technology, and related therapy and training. Students explore the differences in aural rehabilitation across different age groups, as well as taking into account several individual variables.

*Note: Student must achieve a C or better to count towards the SLHS major or leveling certificate.*

## **Sport Management**

### **SM 2050 - Introduction to Sport Management**

**Credits:** 3

**Description:** This introductory course to the Sport Management Major provides an overview of the field of sport management and is designed for students seeking a career in the sport industry. A variety of topics will be explored including marketing, facilities, operations, finance, legal and ethical issues, media and governance. The content focuses on sport management and business functions required within the sport industry while introducing professional development and career options.

### **SM 2070 - Sport Venue Management**

**Credits:** 3

**Description:** This course will expose students to the processes involved with the planning, designing, financing, selection and management of sport venues. Course content will include an in-depth look at sport facility and event management, risk management and legal considerations specific to sport venues.

### **SM 2300 - Sport Event Management**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070

**Description:** This course is designed to provide hands-on, practical involvement in a sport event(s). Students will be assigned to committees where they will plan, organize, publicize and manage many different aspects of event operations. All students must commit to attending/working the culminating event(s). Small group discussions, case studies, on-line collaboration, and staff meetings will be utilized in order to facilitate learning.

### **SM 2730 - Sport in Society**

**Credits:** 3

**Prerequisite(s):** SM 2050

**Prerequisite(s) or Corequisite(s):** ENG 1020 or ENG 1021

**Description:** This course will examine the relationship of sport to society, using social theory and historical perspectives. The course emphasizes the impact of sport on American culture.

*Note: Credit will be granted for only one prefix: SM or RTM.*

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** RTM 2730

### **SM 3100 - Sport Media Operations**

**Credits:** 3

**Prerequisite(s):** SM 2050

**Description:** This course will provide an overview of electronic, broadcast and print media as they relate to the sport industry. The applied aspect of this course will focus on the writing and preparation of press releases, production of media brochures and programs, conducting press conferences, and effective use of technology.

### **SM 3200 - Sport Governance and Policy**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070

**Description:** This course examines governance and policy in sport and how policy development and strategic planning activities affect sport organizations, both amateur and professional. Students will learn the fundamentals of management in sport organizations relative to governance and policy development and implementation. Governance structures in various sport industry segments will be explored. Current sport policy issues, debates, and ethical questions raised will be addressed.

### **SM 3300 - Leadership and Ethics in Sport**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070

**Description:** The purpose of this course is the study of leadership theory and application in order to promote critical examination of historical and contemporary ethical issues and moral dilemmas found in the sport industry. The course includes discussion of traditional and modern leadership theories from business and education which will be applied to the sport industry. Following the development of an understanding of foundational concepts, students will be challenged to examine personal philosophies, clarify values, and refine moral reasoning skills relative to issues found in the sport industry.

### **SM 3350 - Sport Literature and Film**

**Credits:** 3

**Prerequisite(s):** SM 3100

**Description:** In this class, students will study literature and film related to sport. Critical analysis of books and movies will guide in-depth discussions of historical, social, cultural, ethical, and diversity issues. The class will broaden students' intercultural reading experiences and enhance their written and oral communication skills.

*Note: This class cannot count in a degree program outside of the College of Health and Applied Sciences.*

### **SM 3400 - Global Sport**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070

**Description:** The main objective of this course is to make students aware of the enormity of the global expansion and development of sport. The course will also address ethics, marketing, sponsorship, event management, business, and financial topics as well as challenges and issues in international sport management. Students will also explore the history and impact of the Olympic Games.

### **SM 3600 - Sport Promotion**

**Credits:** 3

**Prerequisite(s):** SM 2050 and SM 2070, Junior Standing or Permission of Instructor

**Description:** This course is designed to provide sport industry students with greater understanding of promotion, fundraising, and marketing within the sport industry and athletic administration. Students will explore the use of sport as a promotional vehicle and are provided an in-depth analysis of sport as a product and sport consumer markets. Students will plan and develop marketing, promotional, and public relations campaigns.

### **SM 3650 - Technology and Social Media in Sport**

**Credits:** 3

**Prerequisite(s):** SM 3100 and written communications with "C" or better

**Description:** This course is designed to assist students in developing knowledge of social media outlets and the growth and importance of technology in sport. It will explore the career opportunities in this field and the skills and abilities needed to succeed. The course will explore various areas of sport social media and technology, while building an understanding of how to properly use and apply them as a sport industry professional.

### **SM 4350 - Sport Analytics**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070

**Description:** The main objective of this course is to introduce students to the emerging field of analytics in the sport industry. The course will discuss the impact and challenges of analytics on team management, athlete performance, human resources, marketing, finance, law, manufacturing, event management, and facility

management. Students will also learn how these analytical techniques are run and explore career options in sport analytics.

### **SM 4600 - Organization and Administration of Sports**

**Credits:** 3

**Prerequisite(s):** Senior Standing or Permission of Instructor

**Description:** This upper division course focuses on the organization, administration, and management of agencies within the sport industry. Students will examine and evaluate the varying attributes of sport organizations and common managerial functions. Emphasis will be placed on leadership, organizational effectiveness, and human resource management.

### **SM 4610 - The Sport Enterprise**

**Credits:** 3

**Prerequisite(s):** SM 2050, SM 2070, Junior Standing or Permission of Instructor

**Description:** This survey course explores principles of economics, budgeting, and finance as applied to the sport industry. Specific topics include sport venues and franchise financing along with events, professional sport, collegiate athletics, and industry finance, budgeting, and legal considerations.

### **SM 4860 - Seminar in Sport Management**

**Credits:** 3

**Prerequisite(s):** Senior standing or permission of instructor

**Description:** This capstone course for Sport Management students will draw upon and connect the concepts and analytical tools students have developed in all previous Sport Management courses. Students will be required to synthesize and apply theories, concepts, and practices when engaging in specific strategic planning situations and case studies. Emphasis will be placed on critical thinking and ethical decision-making skills. A formal White Paper, which will provide opportunities for in-depth analysis and explanation of a specific area within the sport industry, is also required. This paper is intended to provide students further insight into the sport industry and to offer additional practical application of knowledge and experience.

**University Requirement(s):** Senior Experience

### **SM 4890 - Internship for Sport Management**

**Credits:** 9

**Prerequisite(s):** Senior Standing, completion of General Studies requirements, completion of a minimum 36 credits within the major; 2.80 GPA in the major and approval of instructor

**Corequisite(s):** SM 4891

**Description:** The Sport Management internship is a culminating 9 credit/405 hour applied experience with a sport organization or agency. The course is planned with, and supervised by, faculty and site supervisors. The goal of the internship is to provide the student with the opportunity to utilize knowledge and skills developed throughout the Sport Management curriculum in a non-classroom setting.

### **SM 4891 - Professional and Career Development in Sport Management**

**Credits:** 3

**Prerequisite(s):** Senior Standing, completion of General Studies requirements, completion of a minimum 36 credits within the major, 2.80 GPA in the major

**Corequisite(s):** SM 4890

**Description:** This course is designed to provide Sport Management students multiple and varying opportunities to assess and improve their professional dispositions, business etiquette, and career development. In addition, academic assignments related to SM 4890 will be discussed and developed. A detailed internship and career goals report and professional portfolio related to the internship experiences are required.

## **Surveying**

### **SUR 1000 - An Introduction to the Technical Aspects of Land Surveying**

**Credits:** 2

**Prerequisite(s):** High School algebra or trigonometry

**Description:** This course addresses the basic legal, technical, and professional topics of land surveying. Students are introduced to the federal and state statutes and regulations governing professional practice. Technical subjects address daily professional practice of research, data collection, and data reduction.

*Note: This course may not be used by Surveying and Mapping majors.*

### **SUR 1510 - Surveying I**

**Credits:** 4

**Prerequisite(s):** CET 1100 and high school or college trigonometry or MTH 1400 with grades of "C" or better, or Permission of instructor

**Description:** This is an introductory course in elementary surveying. Students acquire a knowledge of the theory of measurements, methods of collecting and recording data, reduction of observations of angles, directions, distances and differences in elevation; the computation and adjustment of traverses; the use of data collectors and interfacing with CAD software; construction stakeout employing coordinate geometry and CAD output; and the methods of computing coordinate geometry and areas. Field work includes use of transits, total stations, electronic distance meters, surveyors' tapes, differential levels and data collectors.

### **SUR 2520 - Surveying II**

**Credits:** 4

**Prerequisite(s):** MTH 1410 and SUR 1510 with grades of "C" or better, or Permission of instructor

**Description:** This course is designed to cover the introduction to control surveying, state plane coordinate systems, construction surveying, legal and boundary surveying and large scale topographic mapping for engineering and architectural projects. The student is introduced to optical micrometer and electronic theodolites, precise

levels, and electronic distancers. Laboratory assignments will cover astronomic azimuth observations, circular and parabolic curves, earthwork surveys, control surveying and topographic mapping.

### **SUR 2530 - Route Surveying**

**Credits:** 4

**Prerequisite(s):** SUR 1520 for CET majors, SUR 2520 and SUR 2620 for SUR majors, all with a grade of "C" or better, or Permission of instructor

**Description:** This course is designed to expand the concepts on circular and parabolic curves and earthwork introduced in SUR 2520. Included is the mathematics of spirals; unequal tangent vertical curves, mass diagram of earthwork quantities; alignment profile and slope staking; large scale site mapping; alignment and design; and other surveying techniques required for highways, pipelines, tunnels, transmission lines, water lines, sewers and canals, etc. This course will introduce terrain modeling for site development and environmental concerns.

**Cross Listed Course(s):** CET 2530

### **SUR 2550 - Surveying Computations**

**Credits:** 3

**Prerequisite(s):** SUR 2520 with a grade of "C" or better, or Permission of instructor

**Description:** This is an introductory course on converting survey field observations/data into a form suitable to the end user. Students apply principles and precepts learned in courses of mathematics and surveying to surveying problems, develop analysis techniques, and perform those computations required for plane surveying problems encountered by the surveyor, land developer and civil engineer. Traverse computations, subdivision computations, route surveying computations, etc., are addressed.

### **SUR 3100 - Survey Data Adjustment and Analysis I**

**Credits:** 3

**Prerequisite(s):** MTH 2140, MTH 2410, MTH 3210, PHY 2331, PHY 2341 and SUR 2550 with grades of "C" or better, or Permission of instructor

**Description:** This course provides a foundation in the basic principles of computational methods used to adjust and analyze survey observations employing statistical principles and least squares theory. The problems include adjustment of triangulation, traverses, trilateration, and vertical networks by condition and/or observation equations.

### **SUR 3150 - Astronomy for Surveyors**

**Credits:** 2

**Prerequisite(s):** SUR 2520 with a grade of "C" or better, or Permission of instructor

**Description:** This is an introductory course on applying astronomical observations to surveying and mapping projects. Students acquire knowledge about positional determination by astronomical observations and determining the direction (azimuth, bearing) of lines

on the earth's surface from astronomic observations. The students compute the azimuth of a line from actual survey observations.

### **SUR 3220 - Real Property Descriptions**

**Credits:** 2

**Prerequisite(s):** SUR 3540 with a grade of "C" or better, or Permission of instructor

**Description:** This course addresses writing real property legal descriptions for deeds, easements, and rights-of-way. Emphasis is placed on the structure and order of the elements in the description and on avoiding the common mistakes of language, construction, and terminology in order to avoid ambiguities in the intent of the instrument. A study of the interpretation of the rules to deal with conflicts and ambiguities in instruments is presented.

### **SUR 3300 - Photogrammetry**

**Credits:** 3

**Prerequisite(s):** PHY 2331 and SUR 2550 with grades of "C" or better, or Permission of instructor

**Description:** This course introduces the science of photogrammetry. The geometry of the photographic camera, vertical photography, aerial-mapping camera, flight planning, project planning, supporting field surveys and field classification and targeting are emphasized. Photogrammetric plotters and comparators are discussed. An introduction to digital-image scanning and GPS synchronization is presented. The application of photogrammetry to engineering and surveying mapping programs is discussed.

### **SUR 3540 - Boundary Law I**

**Credits:** 3

**Prerequisite(s):** SUR 2520 with a grade of "C" or better, or Permission of instructor

**Description:** This course introduces the concepts of boundary control and legal principles. Subjects addressed include proportionate measurement, rights in land, junior/senior title rights, retracement of original surveys, deed first/survey first, common and case law, ranking/prioritizing evidence, controlling monuments and corners, errors in legal descriptions and plats, and case studies.

### **SUR 3700 - Geodesy I**

**Credits:** 3

**Prerequisite(s):** SUR 2550, PHY 2311, PHY 2321, PHY 2331 and PHY 2341 with grades of "C" or better, or Permission of instructor

**Description:** This is an introduction into the science of geodesy. The course presents an overview into the theory of surveying in which the size and shape of the earth must be addressed. The history of geodesy and the classical survey procedures to determine latitude, longitude, elevation, and the earth's gravity field are presented. The underlying theory of instrumentation and the application of physical theory are discussed.

### **SUR 3800 - Public Land Survey System**

**Credits:** 3

**Prerequisite(s):** SUR 2520 with a grade of "C" or better, or Permission of instructor

**Description:** This course describes the survey procedures contained in the current Manual of Surveying for the Public Lands of the United States (1973). The history, design, and planning of the rectangular survey system, original surveys, resurveys, independent and dependent surveys, protection of bona-fide rights, mineral surveys, special surveys, and riparian rights are addressed. The importance of the official plats and field notes are presented.

### **SUR 4500 - Construction Measurements**

**Credits:** 3

**Prerequisite(s):** SUR 2550 and SUR 2620 with grades of "C" or better, or Permission of instructor

**Description:** This course introduces the student to the methods of translating engineering and architectural plans into field surveys for construction work and post-construction mapping for payments. The topics include engineering measurement tolerances, vertical and horizontal differential tolerances, terrestrial photography and control, deformation studies and analysis, safety and hazardous waste environment.

### **SUR 4510 - Map Projections and Coordinate Systems**

**Credits:** 3

**Prerequisite(s):** Senior standing; SUR 3700 with a grade of "C" or better, or Permission of instructor

**Description:** This is an in-depth course addressing the popular conformal map projections employed in surveying and mapping programs. The theories for the Lambert conformal conic, Mercator, transverse Mercator, oblique Mercator and stereographic, and Albers equal area projections are presented. Designing the projection system, transformation between plane coordinates and geodetic positions and the conversion of survey data to map projection data are emphasized. The use of local conformal map projections will be presented.

## **Sustainable Systems Engineering**

### **SSE 1040 - Life Cycle and Systems Engineering - An Introduction**

**Credits:** 3

**Description:** Students in this course are introduced to life cycle analysis and systems engineering using principles and applications of systems analysis, life cycle cost analysis and basic quantitative methods. Classical and modern decision analysis techniques are employed for evaluating case studies in sustainable systems of mechanical, civil and electrical engineering.

### **SSE 1215 - Engineering Graphics: Solid Modeling**

**Credits:** 3

**Description:** In this course students study solid modeling fundamentals, geometric constructions, multi-view projections, section views, and dimensioning using adequate CAD software.

**Cross Listed Course(s):** EVE 1215

### **SSE 2000 - Engineering Safety and Quality Assurance**

**Credits:** 3

**Description:** Students in this course are introduced to the fundamentals of engineering safety and quality assurance. In this course, students study the regulatory and professional aspects of occupational safety and focus on the fundamental engineering laws and ethics. Engineering practices are reinforced by requiring students to apply basic engineering principles to safety-related problems. Students are also introduced to the scope and function of quality assurance, including basic definitions, statistics, quality policy and objectives, manuals and procedures, concept of variation, inspection and sampling techniques, metrology process control, methods and the elements of reliability. Current (TQM) and ISO 9000 standards are reviewed.

### **SSE 2100 - Basic Electronic Systems**

**Credits:** 3

**Prerequisite(s):** PHY 2331 and PHY 2341, with a grade of "C" or better, or permission of instructor

**Description:** In this course, students study DC and AC circuits, including electric components, classic network theorems, electric power and complex power, phasor, impedance, digital system, etc. The application and development of electronic systems is also discussed.

### **SSE 2150 - Mechanics of Static Systems**

**Credits:** 3

**Prerequisite(s):** PHY 2311 and MTH 2410 with "C" or better, or permission of instructor

**Description:** In this course, students study the principles of mechanics of static systems in two- and three-dimensions: static equilibrium of particles and rigid bodies; section properties; internal forces in statically determinate trusses and beams; friction; and virtual work.

**Cross Listed Course(s):** EVE 2150

### **SSE 2200 - Materials Science**

**Credits:** 3

**Prerequisite(s):** CHE 1100/1150 with "C" or better, or permission of instructor

**Description:** In this lecture/laboratory course, students are introduced to basic properties of materials, including the properties and behavior that govern their selection and design with emphasis on sustainable practices. Students study materials including ferrous and non-ferrous metals, composites, plastics, ceramics, glass, wood, rubber and adhesives.

### **SSE 2350 - Engineering Programming**

**Credits:** 3

**Prerequisite(s):** SSE 2100 with a grade of "C" or better, or permission of instructor

**Description:** In this course, students study methods for solving engineering problems using the C programming language and the use

of Lab View. Students apply the C programming language and National Instruments Lab View virtual instrumentation software.

### **SSE 3000 - Fundamentals of Systems Design**

**Credits:** 3

**Prerequisite(s):** SSE 2200, SSE 3135, and SSE 3160 with grades of "C" or better, or permission of instructor

**Description:** In this course, students are introduced to the engineering design process and skills through project-based learning. The course focuses on both systems and traditional design process and application of those through team projects. Students learn both systems approach, as well as the fundamental engineering design process. The students apply the aforementioned methodology to a real-world project. Through this course, the students conceptualize, construct, test and present a deliverable project.

### **SSE 3070 - Machine Element and Mechanical Systems**

**Credits:** 3

**Prerequisite(s):** SSE 2200, SSE 3135, and SSE 3160 with grades of "C" or better, or permission of instructor

**Description:** The students are introduced to the fundamental principles required to design machine elements. The students study combined stresses, gearing, brakes, curved beams, etc., and undertake the design of a complete machine. The economics of design is stressed along with strength and safety considerations. The selected software is utilized to perform engineering analyses and to produce preferred designs.

### **SSE 3100 - Mathematical Modeling**

**Credits:** 1

**Prerequisite(s):** MTH 3420 with "C" or better, or permission of instructor

**Description:** In this course, students develop the ability to describe complex, real-world, engineering systems with mathematical concepts. Mathematical modeling is presented through engineering application problems that students tackle by working in teams and applying the theory they have learnt in other courses.

### **SSE 3135 - Strength of Materials with Laboratory**

**Credits:** 4

**Prerequisite(s):** SSE 2150 with a grade of "C" or better, or permission of instructor

**Description:** Students in this course are introduced to the fundamentals in the strength and deformation of engineering materials. Students focus on the development of constitutive relationships of materials under axial, torsion, transverse shear and bending loading conditions, and the engineering applications in the first part of the course. Students are introduced to beam-deflection and column-buckling theories and engineering solutions in the second part of the course. Students use laboratory time to enhance the knowledge and theories developed in the class and to use different equipment measuring engineering properties of various materials.

**Cross Listed Course(s):** EVE 3135

### **SSE 3160 - Mechanics of Dynamic Systems**

**Credits:** 3

**Prerequisite(s):** SSE 2150 OR EVE 2150 with grades of "C" or better, or permission of instructor

**Description:** In this course, students are introduced to dynamics systems, including kinematics, and kinetics of particles and rigid bodies with engineering applications. Students also study the vibration systems in engineering applications.

**Cross Listed Course(s):** EVE 3160

### **SSE 3175 - Modeling Structural Systems**

**Credits:** 3

**Prerequisite(s):** SSE 3135 with "C" or better, or permission of instructor

**Description:** In this course, students study the modeling for structural analysis and design. It focuses on the interaction of the components and their behavior within a structural system. The basic concepts of structural modeling are introduced first, followed by the evolution of structural analysis, and then the analysis methods and types are presented, along with the discussion of interactions within structural systems.

### **SSE 3185 - Fundamental Fluid Mechanics with Laboratory**

**Credits:** 4

**Prerequisite(s):** SSE 3135 OR EVE 3135 with "C" or better, or permission of instructor

**Prerequisite(s) or Corequisite(s):** MTH 3420 and SSE 3160 OR EVE 3160; with "C" or better, or permission of instructor

**Description:** Students in this course are introduced to the basic principles of fluid mechanics and their use in hydraulic engineering. This course covers the properties of fluids and water, fluid statics, fluid kinematics, mass, energy, and momentum principles within fluid dynamics, dimensional analysis, and boundary layers. Students are introduced to the application of fluid mechanics principles to the analysis of flow in pipes and open channels, as well as forces on immersed bodies. This course contains a laboratory that reinforces fluid mechanics principles, such as hydrostatic forces and Bernoulli's equation, as well as introductory hydraulic engineering applications, including flow in pipes, head loss, and open channel flow.

**Cross Listed Course(s):** EVE 3185

### **SSE 3300 - Thermodynamics and Heat Transfer**

**Credits:** 3

**Prerequisite(s):** SSE 2200, SSE 3135, and SSE 3160 with grades of "C" or better, or permission of instructor

**Description:** In this course, students examine the fundamental laws of thermodynamics. Students are introduced to basic concepts of energy, thermodynamic systems, dimensions and units, and the ideal-gas equation of state. Students are introduced to concepts through the study of closed and open systems. Students analyze heat engines and reversible and irreversible processes. Additionally students learn and apply the three basic mechanisms of heat transmission. Conduction, convection (free and forced), plus radiant transmission are treated for

both steady-state and transient conditions. Student learning is aided by computer solutions.

### **SSE 3500 - Humanitarian Engineering**

**Credits:** 3

**Description:** In this course, students are introduced to humanitarian engineering through hands-on instruction and project work in tandem with lectures. Students design and implement a sustainable community project that helps an underrepresented community to meet the population's basic engineering needs. This project is based on knowledge of relevant community development methodologies that students are introduced to through lecture. Students learn to apply Appropriate Design concepts, as well as development implementation strategy with respect to sustainability, and design for community. Students compare and contrast engineering for developing community systems strategies with the traditional design process.

### **SSE 3730 - Control Systems**

**Credits:** 2

**Prerequisite(s):** SSE 2100 with a grade of "C" or better, or permission of instructor

**Description:** In this course, students study the applications of Proportional, Integral, & Derivative (PID) controllers in the process control industry. Students also examine the structure of feedback, sensors, controllers, control valves, process dynamics, timing, piping and instrument drawing.

### **SSE 3980 - Internship in Sustainable Systems Engineering**

**Credits:** 3

**Prerequisite(s):** SSE major, permission of instructor, Junior or Senior standing

**Description:** Internships provide experiential learning opportunities through practical, hands-on experiences in a professional field related to sustainable systems engineering, and are supervised by a faculty member from the major's department, in conjunction with an industrial advisor. Internship placements must be established in consultation with university's internship office prior to enrollment in this course.

*Note: Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

### **SSE 4000 - Sustainable Systems Engineering**

**Credits:** 3

**Prerequisite(s):** SSE 1040 and CET 3120 with grades of "C" or better, or permission of instructor

**Description:** In this course, students study advanced theories and applications of sustainable systems engineering, life cycle analysis, quantitative methods and engineering economics, guided by sustainability principles. Classical and modern decision analysis methods are employed for evaluating case studies in terms of mechanical, civil and electrical engineering using content optimization techniques for detailed analysis and application.

### **SSE 4160 - Geotechnical Engineering with Laboratory**

**Credits:** 4

**Prerequisite(s):** SSE 3135 OR EVE 3135 with grade of "C" or better, or permission of instructor

**Prerequisite(s) or Corequisite(s):** SSE 3185 OR EVE 3185 with grade of "C" or better, or permission of instructor.

**Description:** Students in this course are introduced to the basic principles of soil behavior and their use in geotechnical and geoenvironmental engineering. This course covers soil formation, soil characterization and classification, engineering properties of soil, compaction, fluid flow in soil, stresses in soil, consolidation and settlement, shear strength, and lateral earth pressures. Students are introduced to soil improvement and remediation strategies and the design of earth retaining structures. This course contains a laboratory that covers common geotechnical tests such as sieve analysis, Atterberg limits, hydraulic conductivity, and soil shear strength.

**Cross Listed Course(s):** EVE 4160

### **SSE 4200 - Sustainable Development Strategy**

**Credits:** 3

**Prerequisite(s):** CET 3120 with C or better or permission of instructor

**Description:** In this course, students are introduced to the role of engineering in development, and they examine how actions lead to intended and unintended consequences. Emphasis is placed on sustainability principles with regards to planning and design, and the key components of development economics. Students study development strategy on large, modern world scale and also for communities where the social, political, and economic systems differ from those most commonly experienced by engineers in the developed world. The students are also introduced to a framework and guidelines for conducting both large- and small-scale development projects. The course addresses analysis of communities in medium- to high-risk and low-resilience environments. The framework combines concepts and tools that have been traditionally used by development agencies and other tools more specifically used in engineering project management. Finally, students are introduced to the various leadership skills necessary to make decisions in complex and uncertain environments.

### **SSE 4280 - Energy and Power**

**Credits:** 3

**Prerequisite(s):** SSE 3300, PHY 2310, and PHY 2320, with a grade of "C" or better, or permission of instructor

**Description:** In this course, students study global energy flow, sources and uses of energy. Students are introduced to biological energy and ecosystems from the viewpoint of the engineering practice. Students also deal with energy-related environment problems, including air and thermal pollution, plus radioactivity.

### **SSE 4300 - Probabilistic Design Methodology**

**Credits:** 3

**Prerequisite(s):** SSE 3135 with "C" or better, or permission of instructor

**Description:** In this course, students study engineering design methods that account for the stochastic nature of the design variables and provide means to quantify the inherent risk of a design. The students are introduced to basic concepts of stochastics, followed by the evolution of the probabilistic design, after which the design methods are discussed with emphasis on the Monte Carlo simulation and its applications to structural analysis and design.

#### **SSE 4500 - Refurbishment of Structures**

**Credits:** 3

**Prerequisite(s):** SSE 2150 with "C" or better, or permission of instructor

**Description:** In this course, students study technologies used in restoration, repair, and strengthening of civil engineering structures in order to extend their service life for a sustainable built environment. This course addresses the refurbishment of contemporary steel, concrete, timber, and masonry structures, as well as bridges and historic structures.

#### **SSE 4610 - Senior Design Project**

**Credits:** 3

**Prerequisite(s):** Departmental Permission

**Description:** This is a Senior Experience, capstone design course, focusing on a team design project that incorporates the application of fundamental engineering knowledge and design skills corresponding to the major. The selected project should include formulation of project problem design statements, specifications, planning, and engineering design in consultation with faculty advisors and industry contacts. Through this course students experience the engineering design process by addressing realistic open-ended design problems at the stage of conceptualization, research, construction and testing, analysis, synthesis, and presentation of a deliverable product incorporating sustainability and ethical considerations. The project should reflect the evolution of engineering, technology, and human society with respect to environmental, economic, and social sustainability to meet the needs of development of industry and the human community.

**University Requirement(s):** Senior Experience

**Cross Listed Course(s):** EVE 4610

#### **SSE 4700 - Engineering Decision and Risk Analysis**

**Credits:** 3

**Prerequisite(s):** SSE 4000 with a grade of "C" or better, or permission of instructor

**Description:** Students learn the fundamental principles and practical techniques of risk and decision analysis in this course. The class is oriented toward project-level decisions where multiple variables and complex risks are present. The course introduces students to Monte Carlo analyses, and various types of multicriteria decision analyses. Students collaborate in a larger term project.

## **Theatre**

#### **THE 0010 - BFA Music Theatre Coaching**

**Credits:** 0

**Description:** This course is required for all BFA Music Theatre (MT) concentration students until their final Senior Showcase/Jury Performance. This course covers individual instruction in performance studies for Musical Theatre. It requires weekly attendance at a one and one-half hour coaching class in which students perform for one another. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course in addition to required attendance at twelve coaching sessions. Students must enroll during each semester of participation in the BFA (MT) concentration and must receive a "Satisfactory" grade in order to continue in the BFA (MT) concentration.

#### **THE 0011 - BFA Applied Technology Coaching**

**Credits:** 0

**Description:** This course is required for all BFA Applied Theatre Technology and Design (ATTD) concentration students until their final Senior Portfolio Showcase. This course covers individual instruction in theatre portfolio development, resume development, and career development. It requires monthly attendance of at least one BFA group meeting and one individual meeting. At the end of each spring semester, students must successfully complete a BFA portfolio review before a jury committee of theatre department faculty and staff members. Students must enroll during each semester of participation in the BFA (ATTD) concentration from his or her initial acceptance into the program and must receive a "Satisfactory" grade in order to continue in the BFA (ATTD) concentration. This course is repeatable for all BFA Applied Theatre Technology and Design Majors.

#### **THE 2201 - The Speaking Voice in Performance**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or permission of department

**Description:** This course is designed to teach professional voice users (such as actors, teachers, managers, and public speakers) how to develop and use their voice instruments in public performance environments. This course emphasizes that voice work is for everybody.

#### **THE 2210 - Introduction to Theatre**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and satisfaction of the Oral Communication General Studies requirement or permission of department

**Description:** This course presents a comprehensive survey of theatrical art providing an understanding of the living stage, its players and crafts, and its place as a cultural force from antiquity to contemporary times.

*Note: Credit will be granted for only one prefix: THE or HON.*

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**Cross Listed Course(s):** HON 2211

#### **THE 2220 - Acting I**

**Credits:** 3

**Prerequisite(s):** THE 2210 or permission of department

**Description:** This course provides an introduction to the basic principles of acting, including improvement of voice, body, and mind in the discipline of the theatre. Particular emphasis is placed on the principles of stage movement, improvisation, and beginning scene work.

### **THE 2226 - Acting for Non-Majors: Communication in Performance**

**Credits:** 3

**Description:** This course provides an introduction to the skill of communication through acting performance, including text interpretation, delivery of extemporaneous and written speeches, research and analysis, and techniques to enhance public performance and communication.

**General Studies:** Oral Communication

### **THE 2230 - Acting II**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2220; or permission of department

**Description:** This course builds upon basic principles of acting, including improvisation, character development, stage movement, voice, and scene work. Study topics include development of audition techniques, basic acting, television acting techniques, and advanced scene work.

### **THE 2240 - Stagecraft**

**Credits:** 3

**Description:** This course provides an introduction to the principles, methods, and materials of technical production, including scenic design and construction, lighting design and practices, and costuming and sound practices.

### **THE 2241 - Costume Construction**

**Credits:** 3

**Prerequisite(s):** THE 2210 or permission of department

**Description:** This course provides an introduction to the principles, methods and materials of costume technology, including costume construction, costume shop management, and related costume crafts.

### **THE 2242 - Stage Makeup**

**Credits:** 3

**Description:** This course provides an introduction to the principles, methods, and materials of stage makeup. Students learn to execute a variety of makeup techniques, including corrective, aging, and special effects and to create makeup designs for both realistic and stylized characters.

### **THE 2243 - Graphics for Theatre**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2240; or permission of department

**Description:** This is an introductory course in graphics for theatre. The student will become familiar with hand drafting, perspective, freehand sketching and rendering techniques through theoretical and practical projects. These skills will prepare the student to incorporate the techniques into professional design and technology work within the theatre and entertainment industry.

### **THE 2250 - Stage Management**

**Credits:** 3

**Prerequisite(s):** THE 2240 or permission of instructor

**Description:** This course provides an introduction to theatre stage management methods and styles, including promptbook and blocking notations, actor management, the ongoing problem solving process involved in production, and the basics of the stage manager's union.

### **THE 2260 - Music Theatre History and Performance**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2220; or permission of department

**Description:** This course is designed to provide a survey of American music theatre history and to explore the fundamentals of music theatre production, which students will then apply to selected music theatre performances.

### **THE 2270 - Production Analysis: Process and Technology**

**Credits:** 3

**Prerequisite(s):** THE 2210 or permission of department

**Description:** This course provides an introduction to the principles, methods, materials, and processes of theatre art production, including play and script analysis, literary theory, and the communication dynamics within the production team.

### **THE 2280 - Theatre Career Development I**

**Credits:** 3

**Prerequisite(s):** THE 2210 or permission of department

**Description:** This course provides an introduction to the principles and practice of entering into the professional field in the arts, including resume and cover letter writing, interviewing, networking, personal finance management, becoming a member of a union, negotiating contracts, establishing a strong work ethic, and living a sustainable life in the arts field. Students practice and apply skills through course activities that provide a bridge to their professional career.

### **THE 2290 - Fundamentals of Stage Combat**

**Credits:** 3

**Prerequisite(s):** THE 2210 or permission of department

**Description:** This is an introductory class that will address basic stage combat techniques such as slaps, punches, hair and ear pulls, kicks, rolls, falls, knife and rapier work. The class will emphasize

safety first. We will also address the challenges of making a fight believable and effective. The actor-combatant must not only act the scene but must also master the various techniques to create the illusion of real violence to the audience.

### **THE 2295 - Comedy: In-Print and On-Stage**

**Credits:** 3

**Description:** This course explores the cultural, historical, and literary aspects of comedy through the lens of the art of theatre. Students learn about societal inspirations for comedy, cultural factors that influence the development of comedy, and how comedy as an art form has developed into modern-day theatrical settings, including stage performance, stand-up comedy, sketch comedy, and others.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

### **THE 3200 - Oral Interpretation**

**Credits:** 3

**Prerequisite(s):** COMM 1010 or permission of Theatre Department

**Description:** This course is a study of traditional and contemporary theories of interpretation of literature for the purpose of making the literature come alive for the listening audience and to improve oral communication skills. Students present numerous oral performances of techniques.

*Note: Credit will be granted for only one prefix: HON or THE.*

**Cross Listed Course(s):** HON 3203

### **THE 3201 - Advanced Speaking Voice in Performance**

**Credits:** 3

**Prerequisite(s):** THE 2201 and THE 2210; or permission of department

**Description:** This course continues the process of teaching speakers how to use the voice in a healthier and more communicative way and adds to that knowledge by working with controlling regionalisms and beginning dialect exploration through a learning and mastery of the Skinner version of the International Phonetic Alphabet (I.P.A.).

### **THE 3202 - Voice-Over Techniques**

**Credits:** 3

**Description:** This course teaches techniques used in the voice-over industry, including commercial, narration, and character recording. Students expand their vocal skill, explore further use of vocal variety and interpretation, in addition to learning microphone technique and recording technology.

*Note: Students are expected to produce quality recordings for evaluation, as well as demonstrate knowledge of professional-quality work. Because of this, students are required to purchase a microphone and other recording tools as an assignment for the course. Required materials: a microphone. Recommended materials: Microphone stand, headphones, and sound dampening material (there are many cheap and free options outlined in the course lectures). The department is prepared to grant exceptions for students who cannot afford to purchase a microphone, but the department will also let the student know that, should they wish to parley their*

*education into a voice-over career, that a microphone will be a necessary and essential investment. The microphone is to the vocal artist what tap shoes are to a dancer. Recording software is free, and the instructor of the course has a detailed assignment to help students find and learn this technology. Because of the investment of a basic entry-level microphone, which can run up to \$90 dollars, the course utilizes a very cheap textbook to mitigate student costs. We understand this is a departure from traditional course requirements, but just as a student taking guitar lessons must have a guitar, students learning voice-over technique should work with a microphone and have the technological capacity to record, edit, upload, and download audio files.*

### **THE 3210 - Scene Painting**

**Credits:** 3

**Description:** The student will learn and develop basic and advanced theatrical scene painting skills. This course will focus on techniques of texture, color mixing, faux finishes and trompe l'oeil painting, and the painting of a variety of scenic pieces.

### **THE 3211 - Theatre History, Theory, and Criticism I**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2240; or permission of department

**Description:** As a part of a two semester sequence, this course provides detailed and intensive study of specific theatre contexts, practices, genres, and theories from the Greeks through 1636.

### **THE 3212 - Theatre History, Theory, and Criticism II**

**Credits:** 3

**Prerequisite(s):** THE 2210, THE 2240, and THE 3211; or permission of department

**Description:** As a part of a two semester sequence, this course provides detailed and intensive study of specific theatre contexts, practices, genres, and theories from the Neoclassicists to the present.

*Note: Credit will be granted for only one prefix: HON or THE.*

**Cross Listed Course(s):** HON 3212

### **THE 3213 - Staging Cultures: Theatre, Drama, and Multiculturalism**

**Credits:** 3

**Prerequisite(s):** ENG 1009 or ENG 1010 and ENG 1020 or ENG 1021 or permission of department

**Description:** This course uses theatre history and dramatic texts to explore cultures of previously and/or presently marginalized peoples, including but not limited to African Americans, Hispanics, Asian Americans, women, and the GLBTQ community, in order to promote greater understanding of these peoples and their struggles for representation.

**General Studies:** Arts and Humanities

**Guaranteed Transfer:** GT-AH1

**University Requirement(s):** Multicultural

### **THE 3220 - Stage Movement**

**Credits:** 3

**Prerequisite(s):** THE 2220 or permission of department

**Description:** This course instructs students in the use and training of the human body for communication of artistic expression.

### **THE 3222 - Devised Theatre**

**Credits:** 3

**Prerequisite(s):** THE 2220 or permission of department

**Description:** In this course students learn about the history, process, and production involved with devising a theatrical performance. They learn valuable skills in collaboration, activism, and ensemble performance. This class culminates in a final presentation comprised of entirely original work.

### **THE 3230 - Acting III: Styles of Acting**

**Credits:** 3

**Prerequisite(s):** THE 2210, THE 2220, and THE 2230; or permission of department

**Description:** This course is for advanced performers exploring basic "mask" acting techniques, as well as acting styles particular to Greek, Comedy of Manners, and Shakespeare.

### **THE 3231 - Acting IV: Styles of Acting**

**Credits:** 3

**Prerequisite(s):** THE 2210, THE 2220, and THE 2230 and THE 3230; or permission of department

**Description:** This course for advanced performers explores "half-mask" performance techniques including Chekhov, Farce, and Brecht acting styles.

### **THE 3232 - Acting for the Camera**

**Credits:** 3

**Prerequisite(s):** THE 2220 or permission of department

**Description:** The student is introduced to the fundamental tools of acting for the camera. Students learn basic film terminology, specific camera-acting techniques, auditioning techniques, and the demands placed on an actor when shooting a film. The course uses exercises, scenes, and readings to provide a solid understanding of how to create a character, analyze a text, utilize important vocabulary, and perform effectively on camera.

### **THE 3233 - Acting V: Meisner Technique**

**Credits:** 3

**Prerequisite(s):** THE 2220 and THE 2230; or permission of department

**Description:** This course explores the Sanford Meisner acting technique through improvisation, exercises, activities, monologues and scene work. The history of and contemporary applications of the technique will be incorporated with the focus of learning to live and behave truthfully in imaginary circumstances.

### **THE 3234 - Audition Techniques**

**Credits:** 3

**Prerequisite(s):** THE 2220

**Description:** This course is designed to cover the basics of audition techniques including film, realism, dance calls, cattle calls, cold reads, and various theatrical auditions. Students create an audition book with monologues (short speeches) and songs (16 bar music cuts) from various plays and time periods. Students also develop their audition wardrobe and supporting headshot/resume materials.

### **THE 3240 - Theatre Improvisation Techniques**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2220; or permission of department

**Description:** In this advanced performance course, students will explore basic improvisation acting techniques that enable the actor to develop concentration and spontaneity, build characterization, discover relationships and status, establish mood and feeling, sense shape and rhythm of scene and character, establish language and imagery, and build a play.

### **THE 3241 - Computer Aided Drafting for Theatre**

**Credits:** 3

**Prerequisite(s):** THE 2240 and THE 2243; or permission of department

**Description:** This is an introductory course for computer aided drafting for theatre. Students will become familiar with computer aided drafting software through theoretical and practical projects. Computer aided drafting software will prepare the student to incorporate the techniques and technology into professional design and technology work within the theatre and entertainment industry.

### **THE 3250 - Introduction to Scene Design**

**Credits:** 3

**Prerequisite(s):** ARTH 1500, THE 2240, THE 2243, and THE 2270; or permission of department

**Description:** This course teaches an introduction to basic elements of design and production processes. Emphasis is placed on the role of the scenic designer in theatre productions, the development of a scenic design, period styles, drafting, model building and utilization of facilities.

### **THE 3271 - Stage Lighting**

**Credits:** 3

**Prerequisite(s):** THE 2240 or permission of department

**Description:** This is an introductory course for lighting in the theatre. Students become familiar with lighting equipment theoretically and practically. Lighting design technologies prepare students to operate lighting equipment with an emphasis on theatre specific practices and their applied techniques.

### **THE 3272 - Introduction to Sound**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2240; or permission of department

**Description:** This is an introductory course for sound in the theatre. Students become familiar with sound equipment theoretically and practically. Sound design technologies prepare students to operate sound equipment with an emphasis on theatre specific practices and their applied technologies.

### **THE 3273 - Introduction to Costume Design**

**Credits:** 3

**Prerequisite(s):** ARTH 1500, THE 2210, THE 2240, and THE 2241; or permission of department

**Description:** This course teaches an introduction to the principles and practice of theatrical costume design, including playscript and character analysis, research techniques, costume rendering, understanding fabrics, and an overview of how a costume design is realized in production.

### **THE 3280 - Stage Directing**

**Credits:** 3

**Prerequisite(s):** THE 2220, THE 2240, and THE 2270; or permission of department

**Description:** This course introduces the principles and techniques of directing for theatre, including the selecting, rehearsing, and performance of plays, and the presentation of student-directed projects.

### **THE 3290 - Advanced Stage Combat**

**Credits:** 3

**Prerequisite(s):** THE 2210 and THE 2290; or permission of department

**Description:** This course is a continuation and fine-tuning of the skills learned in Fundamentals of Stage Combat, emphasizing elaboration on the technique already learned, and the concept of "acting the fight."

### **THE 3523 - Drama Writing Workshop**

**Credits:** 3

**Prerequisite(s):** ENG 2500 or THE 2210 or permission of the instructor

**Description:** This course introduces the basics of playwriting style and structure. Writing assignments focus on crafting dialogue, developing characters, and structuring effective plots. Emphasis is placed on the collaborative nature of playwriting, with its ultimate goal of public performance.

*Note: Credit will be granted for only one prefix: ENG or THE.*

**Cross Listed Course(s):** ENG 3523

### **THE 3980 - Professional Internship: Theatre**

**Credits:** 1-15

**Prerequisite(s):** Permission of department

**Description:** This internship requires specialized skills that students

may apply in educational, amateur, community, or professional theatre arts and entertainment venues. A written learning contract between student, faculty supervisor, site supervisor, agency, and department chair is required. Activities include performance, various applied theatre technologies, and management.

*Internship requirements vary by department. For information and instructions on finding and enrolling in an internship, contact the Applied Learning Center at 303-615-1333 or [internships@msudenver.edu](mailto:internships@msudenver.edu).*

*Note: Variable Credit*

### **THE 4202 - Theatre Career Development II**

**Credits:** 3

**Prerequisite(s):** THE 2280 and Senior Standing; or permission of department

**Description:** This course provides in-depth instruction in the digital and electronic presence in the professional field of the arts, including digital portfolio creation and management, website design and maintenance, social media presence and management, online and digital marketing, and online networking. Students practice and apply skills through course activities that provide a bridge to their professional career.

**University Requirement(s):** Senior Experience

### **THE 4210 - Variable Topics in Theatre**

**Credits:** 1-3

**Prerequisite(s):** THE 2210, THE 2220, and THE 2240; or permission of department

**Description:** This course provides detailed and intensive study of specific theatre genres and practices.

*Note: This course may be repeated under different topics for up to 9 credits total.*

### **THE 4240 - Advanced Stagecraft and Applied Scene Technology**

**Credits:** 3

**Prerequisite(s):** THE 2240 or permission of department

**Description:** This course examines the fundamentals of rigging, stage machinery and mechanics, metal working, fabrication with thermoplastics and foams, laminating techniques, "soft" sculpture construction, construction of non-rectilinear scenery, first echelon power tools maintenance, and industry-standard safety requirements and practices.

### **THE 4241 - Advanced Costume Construction**

**Credits:** 3

**Prerequisite(s):** THE 2241 or permission of department

**Description:** This course builds upon skills and knowledge acquired in THE 2241: Introduction to Costume Construction. The student also explores the process of creating a theatrical costume from a designer's sketch and learns a variety of techniques for creating patterns through drafting and draping. Hands-on projects teach

advanced skills in fabric cutting, garment assembly and hand finishing of period costumes and accessories.

### **THE 4250 - Advanced Scene Design: Applied Technology**

**Credits:** 3

**Prerequisite(s):** THE 2240, THE 2243, THE 2270, THE 3241, and THE 3250; or permission of department

**Description:** Students explore the role of the scene designer using elements of scenic design processes. In addition, students integrate advanced technologies that support the designer with the conception, development and execution of stage settings and their applied technologies.

### **THE 4260 - Theatre: Practicum I**

**Credits:** 1

**Prerequisite(s):** THE 2210, THE 2220, and THE 2240; or permission of department

**Description:** This course provides the student with practical experience in theatrical productions, thus augmenting the theoretical aspects of other theatre courses.

*Note: Course may be repeated for credit up to three times.*

### **THE 4270 - Theatre: Practicum II**

**Credits:** 2

**Prerequisite(s):** THE 2210, THE 2220, and THE 2240; or permission of department

**Description:** This is an advanced course in practical supervision and administration of theatrical production processes. Students will be responsible for a major production activity. This class is open primarily to sophomore, junior, and senior level students.

*Note: Course may be repeated for credit up to three times.*

### **THE 4271 - BFA Project: Applied Technology**

**Credits:** 2

**Prerequisite(s):** Permission of department

**Description:** This course consists of an on-campus or off-campus official BFA project. BFA projects consist of a "design of a fully realized production presented before an audience in the area of the student's specialty." For students with a non-design emphasis, a comparable technical or management project will be completed. All internships and BFA projects must be approved by the BFA Coordinator, Theatre Department, and the Internship Office in advance of the BFA project start date.

### **THE 4272 - BFA Project: Music Theatre**

**Credits:** 2

**Prerequisite(s):** Permission of department

**Description:** This course consists of an on-campus or off-campus official BFA project. BFA projects consist of a "significant role in a full production during advanced study." All internships and BFA projects must be approved by the BFA Coordinator, Theatre Department, and the Internship Office in advance of the BFA project start date.

### **THE 4280 - Advanced Lighting: Applied Technology and Design**

**Credits:** 3

**Prerequisite(s):** THE 2240, THE 2243, THE 2270, and THE 3271; or permission of department

**Description:** This course fully prepares the student to design, setup, operate, and provide basic repair for lighting systems and equipment, with an emphasis on theatre specific practices.

### **THE 4290 - Advanced Sound: Applied Technology and Design**

**Credits:** 3

**Prerequisite(s):** THE 2240 and THE 3272; or permission of department

**Description:** This course fully prepares the student to design, setup, operate, and provide basic repair for sound reinforcement and recording equipment, with an emphasis on theatre specific practices. Digital audio and live performance mixing are covered in detail.

## **Travel and Tourism Management**

### **TTM 1000 - Travel and Tourism**

**Credits:** 3

**Description:** This course introduces students to the multidimensional travel and tourism industry through an examination of its major segments, including hotels, travel agencies, transportation companies, destination management companies and tourist offices.

### **TTM 1600 - Tourism and Society**

**Credits:** 3

**Description:** This course introduces students to tourism through a variety of sociological perspectives, enabling students to understand the social and cultural forces that define tourism, the social impacts of tourism development, the development of travel in modern society, and tourism as a global industry. Topics include the environment, race, class and gender, and the role of technology.

**General Studies:** Social and Behavioral Sciences

**Cross Listed Course(s):** SOC 1600

### **TTM 1800 - Travel Technology**

**Credits:** 3

**Description:** In this lab course, students will gain basic proficiency in the use of a global distribution system (GDS) and other travel and tourism technologies along with their role in travel planning. Proficiency includes checking availability of flights, hotels and cars; booking reservations; quoting prices; and creating a passenger name record (PNR). The course includes US geography as it relates to air travel.

### **TTM 3000 - Sustainable Tourism and Recreation**

**Credits:** 3

**Description:** This course examines the opportunities and challenges

of maximizing positive impacts on cultures, environments, and economies while minimizing and mitigating negative impacts of tourism and recreation activities. The course features worldwide case studies and provides a deep analysis of land and leisure, environmental stewardship, industry interrupters, responsible development, ethics, and human diversity.

### **TTM 3200 - Itinerary Design**

**Credits:** 3

**Description:** This course provides students with the skills of designing a high-quality and customized travel itinerary and personalized life-enhancing travel experience. Students develop the comprehensive expertise of qualifying travelers to a specific destination based on key tourism theories.

### **TTM 3400 - Corporate Travel**

**Credits:** 3

**Description:** This course provides a comprehensive study and analysis of the business travel industry with a detailed investigation of corporate travel duties, roles, and responsibilities. Students examine accounting management systems, requests for information and proposal, vendor relationships, and Duty of Care concept. Theoretical and practical issues are examined with case studies that include strategies on how to design a corporate travel program with sustainable value.

### **TTM 3700 - Global Tourism**

**Credits:** 3

**Prerequisite(s):** 2.5 GPA, ENG 1009 or LING 2010

**Description:** In this course, students examine cultural diversity by exploring world characteristics and behaviors through the lens of travel and tourism. The course includes 9-14 days studying abroad where students spend time in a remote area, enabling students to compare and contrast popular perceptions of culture with their observed and historically correct versions. Students will identify an ancient cultural pattern that influences current culture and attracts the global tourist. Students will examine their perspectives of the power of global tourism as a promoter of multicultural understandings. This study abroad trip includes several pre-trip and/or post-trip class sessions.

**General Studies:** Social and Behavioral Sciences; Global Diversity

### **TTM 3800 - Cruise Tourism**

**Credits:** 3

**Description:** In this course, students examine the cruise industry from a variety of perspectives, including business, cultural, environmental, political and economic issues. Students identify the challenges and relationships among the cruise product, cruise geography, maritime law, port destinations, and tourism activities.

### **TTM 4100 - Adventure Travel**

**Credits:** 3

**Description:** This course prepares students with professional

knowledge of the central theories and practices related to adventure travel. Students develop a comprehensive knowledge related to risk management strategies, business operations, and the environmental and sociological impacts of adventure in modern society.

### **TTM 4200 - Ecotourism**

**Credits:** 3

**Description:** This course prepares the students to evaluate the intersection of the socio-cultural, environmental, and economic impacts of ecotourism enterprises. A theoretical and applied analysis of ecotourism is explored covering topics such as the practice of ecotourism, concepts and challenges, ethics and responsible practice, and business operations.

*Note: Course Revised June 28, 2021*

### **TTM 4800 - Inbound Tourism**

**Credits:** 3

**Corequisite(s):** Complete twelve hours in major concentration and Senior Standing

**Description:** Tourism is all about stories. The art of creating and telling enlightening stories that reveal hidden and little known cultural treasures is the focus of this course. Students apply the theories and techniques of planning, leading, and managing a narrated walking tour for inbound tourists through a practical and hands-on learning experience. Students work in teams to organize a half-day narrated tour in the Denver metropolitan area on a weekend at the end of the semester. A team simulates being professional tour guides while the rest of the students simulate being the inbound tourists. Walking tours include audience participation and dining experiences.

**University Requirement(s):** Senior Experience

## **University Course**

### **UC 3980 - Internship**

**Credits:** 1-15

**Prerequisite(s):** Permission of instructor

**Description:** Internships provide experiential learning opportunities to students through practical, hands-on experiences in a professional field related to the student's academic program(s) of study, and are supervised by a faculty member, in conjunction with an internship-site supervisor. Internships must be established following university procedures for credit.

## **Urban Agriculture**

### **UA 2735 - Urban Vegetable Farming**

**Credits:** 3

**Description:** This course is an introduction to growing urban vegetable crops indicative to the Rocky Mountain region, and the theoretical knowledge and hands-on experience required for successfully producing them. This introductory course is intended for

students who have no prior course work in gardening or vegetables, although participation by those with food backgrounds is encouraged.

#### **UA 3605 - Agribusiness Operations**

**Credits:** 3

**Description:** This course examines the role of a manager from a food growing operation, with particular emphasis on identifying revenue streams, understanding common fixed and variable costs in urban agriculture, and how to maintain a profitable business.

#### **UA 3765 - Greenhouse Operations**

**Credits:** 3

**Description:** Greenhouse Operations is a class that covers all aspects of small and large greenhouse operations. The course reviews decision-making concerns for a person entering the greenhouse business. This course will review all aspects of the business, from the

physical facilities, to the day-to-day operations, to business management and marketing.

#### **UA 3905 - Farm to Table Sustainability**

**Credits:** 3

**Prerequisite(s):** HTE 1533

**Description:** Taught from both the perspectives of the food service operator and the farmer/rancher, students will learn how to source local products, seasonality of products, and determine how to establish contracts with local agriculture operations to sustain a relationship with those providers, and a reliable source of products. This course will involve field trips to local ranch, farm and food processing operations. Students are responsible for their own transportation.

# Administration

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Daniel Lair, Ph.D.

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