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<td>Center for Addiction Studies*</td>
<td>National Addiction Studies Accreditation Commission, 1001 North Fairfax Street, Suite 201, Alexandria, VA 22314, 703.562.0211, <a href="http://www.nasacaccreditation.org">nasacaccreditation.org</a></td>
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<td>Chemistry**</td>
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<tr>
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Human Services** Approved by the Council for Standards in Human Services Education, 3337 Duke Street, Alexandria, VA 22314, cshse.org

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Nursing* Accredited by the Accreditation Commission for Education in Nursing (program granted continuing accreditation with warning in March 2011) 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326 Phone: 404-975-5000, acenursing.org

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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, nrpa.org/coa


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Administrator Emeritus-The Internship Center

Jass, Carolyn K.  Ph.D.
Professor Emeritus-Nursing

Jensen, Carol A.  M.Ed.
Professor Emeritus-Health Professions

Johnson, Pat R.  M.S.
Assistant Professor Emeritus-Human Performance, Sport & Leisure Studies

Joseph, Susan A.  Ph.D.
Professor Emeritus-Art

Kaersvang, Lynn L.  M.S.W.
Professor Emeritus-Social Work

Kaplan, Sheila I.  Ph.D.
President Emeritus

Karnes, Edward W.  Ph.D.
Professor Emeritus-Psychology
Katsampes, Paul L. Ph.D.  
Professor Emeritus-Criminal Justice & Criminology  

Keller, Kenneth M. Ph.D.  
Professor Emeritus-Anthropology  

Kilcoyne, John R. Ph.D.  
Professor Emeritus-Earth & Atmospheric Sciences  

Klyn, Charlotte  
Professor Emeritus-Aerospace Science  

Kornelsen, Michael J.  D.M.A.  
Professor Emeritus-Music  

Krenetsky, John C. Ph.D.  
Professor Emeritus-Biology  

Krupar, Karen R. Ph.D.  
Professor Emeritus-Communications Arts & Sciences  

Lancaster, Maureen P. Ph.D.  
Administrator Emeritus-Director of Center for Individualized Learning  

Langton, Larry B. Ph.D.  
Professor Emeritus-English  

Landry, John R. Ph.D.  
Associate Professor Emeritus-Computer Information Systems  

Lanman, Susan Warren Ph.D.  
Administrator Emeritus-Director of Cooperative Education Internship Center  

Larsen, Gwynne Elain Ph.D.  
Professor Emeritus-Computer Information Systems  

Leitz, Robert E. M.S.  
Assistant Professor Emeritus-Geology  

LeJeune, Noel F. Ph.D.  
Associate Professor Emeritus-Computer Science  

Leong, Deborah J. Ph.D.  
Professor Emeritus-Psychology  

Lind, Gerhard Ph.D.  
Professor Emeritus-Chemistry  

Lindquist, Cynthia L. Ed.D.  
Professor Emeritus-Special Education, Early Childhood Education and Culturally and Linguistically Diverse Education  

Loats, James T. Ph.D.  
Professor Emeritus-Mathematics  

Loeffler, Mary Ann M.A.  
Assistant Professor Emeritus-Leisure Studies  

Logan, J. Thomas M.F.A.  
Professor Emeritus-Art  

Low, M. Edwin Ph.D.  
Professor Emeritus-English  

Lucero, Aileen F. Ph.D.  
Professor Emeritus-Sociology  

Lutes, Natalie K. M.A.  
Administrator Emeritus-Vice President of Administration, Finance & Facilities  

Lyke, H. J. Ph.D.  
Professor Emeritus-Psychology  

Martinez, Lupe M. Ph.D.  
Associate Professor Emeritus-Elementary Education and Literary  

Mangold, Robert L. M.F.A.  
Professor Emeritus-Art  

Marcom, Betty J.  
Professor Emeritus-Nursing  

Marold, Kathryn A. Ph.D.  
Professor Emeritus-Computer Information Systems  

Mawhinney, Charles H. Ph.D.  
Professor Emeritus-Computer Information Systems  

McAfee, Oralie D.  
Professor Emeritus-Teacher Education  

McClard, Megan Brown Ph.D.  
Professor Emeritus-English  

McCollum, Jerrald D. Ph.D.  
Professor Emeritus-Music  

McElhinney, Annette Ph.D.  
Professor Emeritus-English & Women’s Studies  

McGuire-Mahoney, Kathleen Ph.D.  
Professor Emeritus-Nursing  

Megeath, Joe D. Ph.D.  
Professor Emeritus-Computer Information Systems
Mena, Charles Ph.D.  
Professor Emeritus-Teacher Education

Mendez, Celestino G. Ph.D.  
Professor Emeritus-Mathematics

Miercort, Olga S.  
Associate Professor Emeritus-Nursing

Milkman, Harvey B.  Ph.D.  
Professor Emeritus-Psychological Sciences

Miller, Mary A. Ph.D.  
Professor Emeritus-Health Professions

Monnett, John H.  Ed.D.  
Category II Lecturer Emeritus-History

Monroe, Ben Ph.D.  
Associate Professor Emeritus-Human Services

Monroe, Stuart R.  Ph.D.  
Professor Emeritus-Computer Information Systems

Moody, Vernon W.  M.M.E.  
Associate Professor Emeritus-Music

Morehouse, Percy A.  
Administrative Emeritus-Executive Director of EEO/Assistant to the President

Morgenegg, Bruce Ed.D.  
Professor Emeritus-Human Performance & Sport

Morris, Glenn A.  
Administrator Emeritus-Director of Veteran’s Upward Bound

Morse, H. William D.M.A.  
Associate Professor Emeritus-Music

Murphy, Charlotte W. Ph.D.  
Professor Emeritus-Mathematics

Nation, Frank W. M.A.  
Associate Professor Emeritus-History

Nees, Harol H.  D.P.A.  
Professor Emeritus-Criminal Justice & Criminology

Netzel, Richard G. Ph.D.  
Professor Emeritus-Physics

Nichols, Carol D. Ed.D.  
Professor Emeritus-Reading

Odden, Arthur B. J.D.  
Associate Professor Emeritus-Management

Odell, Robert D.  
Professor Emeritus-Industrial Technology

Ohrt, Leroy L.  
Professor Emeritus-Aerospace Science

Olmsted, Conway H.  Ph.D.  
Associate Professor Emeritus-Spanish

O'Neill-Jones, Margaret M.  Ed.D.  
Professor Emeritus-Journalism and Media Production

Orlando, Vincent P.  Ph.D.  
Professor Emeritus-Reading

Ortega Ericksen, Yolanda M. M.P.A.  
Administrator Emeritus-Vice President of Student Services

Palmer, Gerald K. Ph.D.  
Professor Emeritus-Computer Information Systems & Management Science

Parker, David W. Ed.D.  
Professor Emeritus-Industrial Technology

Parker, Mary Virginia Ph.D.  
Professor Emeritus-Accounting

Paskind, Rebecca L.  Ph.D.  
Associate Professor Emeritus-Social Work

Patrone, Ferdinand L. Ph.D.  
Professor Emeritus-Management

Phillips, Kenneth Ralph M.S.  
Associate Professor Emeritus-Industrial Design

Plachy, Jon M. Ed.D.  
Professor Emeritus-Mathematics

Pollman, Mary Jo Ph.D.  
Professor Emeritus-Early Childhood Education

Pook, Laszlo A.  Ph.D.  
Professor Emeritus-Computer Information Systems

Powell, Frank R. Ed.D.  
Professor Emeritus-Human Performance, Sport & Leisure Studies
Prins, Charles A. Ph.D.  
Professor Emeritus-Computer Information Systems

Pugel, Robert J. Ph.D.  
Associate Professor Emeritus-English

Quizar, Stephanie O. Ph.D.  
Professor Emeritus-English

Raab, Joseph A. Ph.D.  
Professor Emeritus-Mathematics

Rabinoff, Marc A. Ed.D.  
Professor Emeritus-Human Performance & Sport

Rager, Kenneth A. Ph.D.  
Professor Emeritus-Mathematics

Ranwez, Alain D. Ph.D.  
Professor Emeritus-French

Reed, John T. Ph.D.  
Administrator Emeritus-Director of Academic Computing & User Services

Ring, Jeremiah J. Ph.D.  
Professor Emeritus-History

Rockwood, Anthony A. M.S.  
Professor Emeritus-Meteorology

Rosen, Bernard  
Associate Professor Emeritus-Sociology

Saxe, Eugene W. Ph.D.  
Professor Emeritus-English

Schmidt, John C. Ed.D.  
Professor Emeritus-Industrial Design

Schneider, Robert J. Ph.D.  
Professor Emeritus-Psychology

Schuette, Oscar H.  
Professor Emeritus-Marketing

Scott, Judith D. Ph.D.  
Associate Professor Emeritus-Marketing

Seay, George William  
Professor Emeritus-Aerospace Science

Shanks, Nancy H. Ph.D.  
Professor Emeritus-Health Professions

Shaw, Kenneth D. Ph.D.  
Professor Emeritus-Computer Information Systems

Shwayder, Martha L. Ph.D.  
Professor Emeritus-Sociology

Smith, Craig Marshall M.F.A.  
Professor Emeritus-Art

Smith, Howard S.  
Professor Emeritus-Electrical Engineering Technology

Snozek, Dorothy A. Ed.D.  
Professor Emeritus-Reading

Speer, Andrew M.F.A.  
Associate Professor Emeritus-Art

Steele, Carol S. M.S.  
Assistant Professor Emeritus-Biology

Steinhauser, Sheldon B.S.  
Associate Professor Emeritus-Sociology & Anthropology

Stone, Gerald W. Ph.D.  
Professor Emeritus-Economics

Stroup, Linda M. Ph.D.  
Professor Emeritus-Nursing

Susman, Ellen P. Ph.D.  
Professor Emeritus-Psychological Sciences

Swensson, Jackie M. Ph.D.  
Professor Emeritus-English

Swetnam, Leslie A. Ph.D.  
Professor Emeritus-Elementary Education & Literacy

Talman, Louis A. Ph.D.  
Professor Emeritus-Mathematical & Computer Science

Tamblyn, Hal D.M.A.  
Professor Emeritus-Music

Tarr, Cedric W. Ph.D.  
Professor Emeritus-Political Science

Temmer, Harry A.  
Professor Emeritus-Political Science

Thobhani, Akbarali Ph.D.  
Professor Emeritus-African American Studies; Director, Institute for Intercultural Studies
Thomas, Gwendolyn A. Ph.D.
Professor Emeritus-English

Thompson, Nancy M. Ph.D.
Associate Professor Emeritus-Mathematics

Tucker, Patricia A. Ph.D.
Professor Emeritus-Mathematical and Computer Science

Tull, Tara M.S.
Professor Emeritus-Human Services and Counseling

Varney, Peter J. Ph.D.
Associate Professor Emeritus-Geology/Environmental Science

Vitaska, Charles R. Ph.D.
Professor Emeritus-Marketing

Voth, David R. Ph.D.
Professor Emeritus-Biology

Wade, Roger C. Ph.D.
Professor Emeritus-Sociology

Wall, Donald D. Ph.D.
Professor Emeritus-History

Watson, Mary Ann Ph.D.
Professor Emeritus-Psychological Sciences

White, Cottee J. Ph.D.
Professor Emeritus-African American Studies

Whittekin, Ronald D. D.A.
Professor Emeritus-Mathematical Science

Wickelgren, Lyn W. Ph.D.
Professor Emeritus-Psychology

Wieder, Milton J. Ph.D.
Professor Emeritus-Chemistry and Biochemistry

Williams, Avalon
Associate Professor Emeritus-English

Wilson, Jerry H. Ph.D.
Professor Emeritus-Physics

Worster, Larry E. Ph.D.
Professor Emeritus-Music

Wright, Robert C. Ph.D.
Professor Emeritus-Urban Studies

Yarar, Ruth Goldberg M.Ph.
Assistant Professor Emeritus-Mathematics

Yuthas, Ladessa
Professor Emeritus-Teacher Education
Faculty (Graduate)

Dr. Joanne Bailey, Associate Professor of Social Work
A.A., San Jacinto College; B.S., M.A., M.S.W., Ph.D., University of Houston

Dr. David Bechtold, Assistant Associate Professor of Management
B.S., Arizona State University; MBA, University of Hawaii at Manoa; PhD, University of Hawaii at Manoa

Dr. Deborah Horan, Chair and Associate Professor of Elementary Education & Literacy
B.A., M.A., University of Colorado at Denver; Ph.D., Boston College

Dr. Richard L. Russell, Assistant Associate Professor of Accounting
B.B.A., M.P.A., Jackson State University College of Business; J.D., University of Iowa College

Dr. Nicole S. Vowles, Chair and Associate Professor of Marketing
BBA, University of San Diego; MBA, Ohio State University; PhD, Victoria University of Wellington

Dr. Kevin Zeiler, Associate Professor of Health Care Management and Master of Health Administration
BS, Health Care Management, Metropolitan State University of Denver; MBA, Health Care Management, Regis University; JD, Law, University of Denver, Sturm College of Law

Registration and Records (Undergraduate)

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 that s/he has been called to duty, the student must notify all instructors and Veterans Education Benefits 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 their faculty, 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,
- Incomplete.

The student is required to present proof of training schedule, official orders or letter from the service member’s unit to Veterans Education Benefits Veteran and Military Student Services. Veterans Education Benefits 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 243, 303-615-0440, veterans@msudenver.edu.
Registration and Records (Graduate)

Emergency Withdrawal

Called to Active Military Duty:
The University will assist any student called to active military service with reasonable accommodations. As a primary point-of-contact, students must work with the Office of the Registrar Veteran Education Benefits Veteran and Military Student Services in order to review all options prior to leaving the University. Depending on when in the semester the student is called to duty, they will have different options, including administrative drop, withdrawal, or incomplete.

Office of the Registrar, Veteran Education Benefits, Veteran and Military Student Services, Student Success Building, Suite 160 (#3), 303-556-3991, VAEdBenefits@msudenver.edu. Tivoli 243, 303-605-0440, veterans@msudenver.edu.

Student Resources (Undergraduate)

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 - Early assessment, case management, and support for students who are struggling and/or are at risk. Provides assessment and case management support for students who are struggling or who may be displaying behaviors of concern.
- Career Services - Provides career advising and information, resume reviews, job search assistance and events to help students network with employers.
- Center for Advanced STEM Education (CASE) – Assists STEM majors through academic, financial, and peer mentor supports.
- Center for Equity and Student Achievement (CESA)
- Civic Engagement Program - Provides community involvement programs, student leadership opportunities and campus-community collaborations. Offering educationally meaningful service opportunities that positively impacts the community and provides opportunities for students to develop as engaged citizens.
- Classroom to Career Hub – Provides relevant and impactful career development for the full student body.
- College Assistance Migrant Program (CAMP) is 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 - Psychological support services for students and groups. Individual and group therapy, crisis intervention and outreach to students.
• Dean of Students Office - The hub for student support and referrals. Services include case management, student conduct, sexual misconduct investigations, conflict resolution services, student emergency fund, and oversight for the roadrunner food pantry.

• 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

• Food Bank - Food resources on campus for current MSU Denver students

• Fostering Success – Supports independent students from foster care, kinship care, or group homes

• 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 Health 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.

• Peer Mentoring - Individuated support and advocacy to all students 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

• Scholar Success

• Scholarship Support and Retention - 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 Conflict Resolution Services - Voluntary mediation, conflict coaching, and related services for students. Provides mediation, conflict coaching, group dynamics services, and the Dialogues Program.
- Student Emergency Fund – Application process for students encountering unforeseen financial crisis.
- Student Government Assembly
- Student Health Insurance – Manages the Student Health Insurance for students taking nine (9) or more credits.
- Student Organizations
- Student Travel Program – Grant funding available for students to travel to professional conferences and meetings
- Roadrunners Give Back Volunteer Program
- Roadways Advising - Can help you find the perfect major, troubleshoot roadblocks to completing college, and help you get back on track if your degree journey takes an unexpected turn.
- Summer Bridge/Melt – Provides students with support between freshman and sophomore year.
- Supplemental Instruction - Peer-facilitated study sessions. 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 - Supports and provides resources for admitted transfer students through graduation. 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 funding and student presentation opportunities for students doing research. Resource for students wanting to engage in research activities, presenting and grant opportunities.
- Veterans Education Benefits
- Veteran/Military Student Center
- Veterans Upward Bound
- Writing Center – One on one writing tutoring and support for all students

Student Resources (Graduate)

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.

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- Access Center - Disability support services
- Auraria Immunizations – Coordination of the State mandated immunization requirement and additional immunization services.
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- 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.
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- Career Services - Provides career advising and information, resume reviews, job search assistance and events to help students network with employers.
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- Civic Engagement Program - Provides community involvement programs, student leadership opportunities and campus-community collaborations. Offering educationally meaningful service opportunities that positively impacts the community and provides opportunities for students to develop as engaged citizens.
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- 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
- Internship Program
- 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
- Office of Graduate Studies
- 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
Student Rights and Responsibilities (Undergraduate)

Graduation Rates

MSU Denver's latest, six-year graduation rate for the 2011 2012 cohort of first-time, full-time, degree-seeking students is 28%. MSU Denver has a six-year graduation rate of 50 49% for the 2011 2012 cohort of full-time, transfer, degree-seeking students.

Student Rights and Responsibilities (Graduate)

Graduation Rates

MSU Denver's latest, three-year graduation rate for the 2014 2015 cohort of first-time, full-time, graduate-degree-seeking students is 90%.

The University and Its Mission (Undergraduate)

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 citizens. That is why, with its tuition remaining among the lowest in the state, MSU Denver is Colorado's best value in education.

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 over 23 90 majors, 91 90 minors, and more than 31 30 certificate programs offered through three colleges: Business; Letters, Arts and Sciences; and Professional Studies; and as well as the School of Education and the School of Hospitality, Events and Tourism. 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 five seven graduate programs: Master of Science in Cybersecurity, Master of Professional Accountancy, Master of Social Work, Master of Business Administration, 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. Excellence in teaching and learning is MSU Denver's primary objective. 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 2017 2018 is 19,545 19,258. Students range in age from 14 to 74 75 with an average age of 25. MSU Denver enrolls the highest number of undergraduate students of color (42 45%) of all four-year colleges in the state.

About 66 66% of undergraduate students are enrolled full time, with 33 49% of students being first-generation to college. Ninety-one percent of undergraduate students reside in the seven county area of the Denver metropolitan area.

Faculty

More than 500 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, 52 52% of full-time faculty are women, and 20 25% represent ethnic minorities faculty of color.
The University (Graduate)

Faculty

MSU Denver has more than 500 full-time faculty members. 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, 51-52 percent of full-time faculty are women, and 20-25 percent represent ethnic minorities faculty of color.

College of Business

Master of Business Administration

The College of Business at MSU Denver offers a Master of Business Administration (MBA) with three concentrations to choose from: Strategic Business, Business Analytics, and Accounting.

Mission of the MSU Denver MBA Program

We transform students into effective business professionals. We do this by providing an accessible, flexible, and high quality MBA education made possible through excellence in teaching, individualized attention, and hands-on experiences, all at an exceptional value.

MBA Program Goals

The goals of the MSU Denver MBA Program support the missions of the University and the College of Business. Graduates of the MSU Denver MBA Program will develop and demonstrate competence in written, oral, and collaborative communication skills (LG 1). MSU Denver MBA graduates will be effective problem solvers with a practical, real-world focused perspective supported by familiarity with decision making models and analytical tools (LG2). Finally, MSU Denver MBA graduates will possess both functional and cross-functional business knowledge reinforced with an appreciation of the ethical and global issues that so profoundly affect contemporary business practice.

Accreditation

In addition to the distinction of being the value leader in the Denver metro area the MSU Denver MBA program is accredited as part of the MSU Denver College of Business’s AACSB accreditation. AACSB is world-recognized as the leading accreditor of colleges and schools of business. Less than 5% of all business programs worldwide have earned the prestige of AACSB accreditation.

MBA Program Admission

Admission Criteria

Applicants who hold a bachelor’s degree from a regionally accredited college or university in any discipline may apply. Admission to the program is based on evaluation of the following materials:

1. One of the following:
   - GMAT score
   - Earned graduate degree from a regionally accredited college or university
   - Portfolio documenting at least five years of significant business and management experience
2. Transcripts from all colleges and universities attended
3. Essay
4. Resume
5. Completed application form
6. Application fee

All admission decisions will be made by an MBA admissions committee. Most students are advised to gain two or more years of work experience before enrolling in the MBA program given that a key part of the experience comes from learning from and networking with fellow students.

Leveling Requirements

Applicants who do not have either an undergraduate business degree or graduate business degree and have less than eight years of significant business and management experience will be required to successfully complete online leveling modules prior to beginning MBA coursework.

International Applicants

Additional documentation is required. Please visit the International Student Admissions webpage: msudenver.edu/admissions/apply/internationalstudents/

Non-degree Seeking Students

Non-degree seeking students have the option to take up to 9 credit hours of MBA coursework on a space available basis. Non-degree seeking students eligible to enroll in MBA courses include:

- Students with a bachelor's degree (or higher) and from a regionally accredited college or university with a GPA ≥ 3.0;
- Students with a bachelor's degree and approved professional examination or licensure; and
- Students currently admitted to a graduate business program at another regionally accredited college or university.

Non-degree seeking students in the above categories must submit the following:

- Completed graduate application
- Application fee
- Official transcripts from all colleges and universities previously attended
- If applicable, official proof of successful completion of the professional exam or licensure
- If applicable, proof of admission to a graduate business program at another regionally accredited college or university.

Students currently admitted to another graduate program at Metropolitan State University of Denver may take a limited number of MBA courses to fulfill their degree requirements. Applicants in this category must submit a letter from their dean or academic advisor stating that they are in good academic standing and that the requested business courses will be accepted for their graduate degree program.

If a non-degree seeking student would like to become degree-seeking, the student must apply to become degree-seeking and must have earned an average GPA of 3.0 or above in the MBA program courses they have completed.

Advancement to Candidacy

All students accepted into the Master of Business Administration program must adhere with the following MBA Program academic policies:

- Students in the MBA program must complete the degree with a cumulative GPA of 3.0 or higher. No more than two (2) grades of C-, C, or C+ will count toward the degree requirements, and no grade lower than a C- will count toward the degree. All grade records remain on the master's transcript and
count toward the cumulative GPA. A student who receives three (3) grades of less than a B- will be dismissed from the program.

- Students must complete the MBA Capstone (MBA 6500) with a minimum grade of B-.
- Students may enroll in no more than fifteen (15) credit hours per semester. Students who wish to take over 15 credits are required to seek approval. For more information, please contact the Associate Dean or MBA Advisor at 303-615-1117 or mba@msudenver.edu.
- Master's students are considered full-time if they are registered for six (6) credit hours, half-time if registered for three (3) credit hours, and less than half-time if registered for two (2) or fewer credit hours.
- Students must complete the master's degree within six (6) calendar years from the semester of initial enrollment.
- Students not enrolled for three (3) consecutive semesters (including summer) must submit a re-admission application. Students requesting re-admission must be in good academic standing and must submit their application for re-admission to the master's program in which they have been enrolled.
- The Student Code of Conduct will apply to all MSU Denver students, regardless of level. Access the Student Code of Conduct.

MSU Denver's residency requirement for master's programs requires that at least twenty-eight (28) MBA Program credit hours be taken at MSU Denver. Students must adhere to MSU Denver's residency requirement for graduate students.

MBA Program Requirements

Students will complete a 1 credit hour MBA program foundation course at the beginning of their program, 27 hours of required MBA Core courses, and a 9 credit hour area of concentration. An MBA concentration is comprised of at least 9 credit hours in a particular discipline, allowing students to develop more in-depth expertise. The overall MBA program requires a minimum total requirement of 376 credit hours.

MBA Program Foundation (1 credit hour)

The 1-hour MBA program foundation course will orient students to the MSU Denver MBA program structure, expectations, and resources. The course will enable students to network with peers and prepare for the experiential component of coursework in the MBA program.

- MBA 5000 - MBA Foundation Credits: 1

MBA Core (27 credit hours)

All MBA students complete course work in each of the major functional areas of business. The MBA core develops and reinforces the functional and cross-functional knowledge component of the MBA program. Once all MBA Core coursework is successfully completed, students take an integrative capstone course that reinforces cross-functional thinking and problem solving.

- MBA 5105 - Accounting Concepts Credits: 3
- MBA 5205 - Information Systems Strategy Planning Credits: 3
- MBA 5305 - Managerial Economics Credits: 3
- MBA 5405 - Corporate Finance Credits: 3
- MBA 5505 - Legal Analysis and Sustainability Credits: 3
• MBA 5510 - Operations and Supply Chain Management Credits: 3
• MBA 5520 - Global Enterprise Management Credits: 3 (or approved study abroad)
• MBA 5605 - Marketing Analysis and Planning Credits: 3
• MBA 6500 - Integrative and Strategic Perspectives of Organizations Credits: 3 (prerequisite: completion of MBA Core)

Subtotal for MBA Core: 27 credit hours

MBA Area of Concentration (9 credit hours)
The MBA area of concentration allows students to develop more in-depth expertise based on their interests and career aspirations.

Strategic Business Concentration
Select three of the following courses:
• MBA 5140 - Strategic Cost Management Credits: 3
• MBA 5480 - Strategic Finance Credits: 3
• MBA 5580 - Transforming Organizations through Leadership Credits: 3
• MBA 5680 - Advanced Strategic Marketing and Analysis Credits: 3

Subtotal for Strategic Business Concentration: 9 credits

Business Analytics Concentration
• MBA 5210 - Knowledge Discovery using Business Analytics Credits: 3
• MBA 5220 - Practical Business Analytics Credits: 3
• MBA 5230 - Data Mining for Business Intelligence Credits: 3

Subtotal for Business Analytics Concentration: 9 credits

Accounting Concentration
Select three of the following courses. Note that some of these courses may have pre-requisites that must be satisfied prior to enrollment.
• ACCM 5090 - Tax Research Credits: 3
• ACCM 5520 - Business Combinations Credits: 3
• ACCM 5600 - Fraud Examination Awareness Seminar Credits: 3
• ACCM 5800 - Applied Internal Auditing Credits: 3
• ACCM 6580 - Financial Statement Analysis and Quantitative Methods Credits: 3
• MBA 5140 - Strategic Cost Management Credits: 3

Subtotal for Accounting Concentration: 9 credits

Total for MBA Program: 376 credits
International Business Concentration

For Business Majors Only

The International Business Concentration offers business majors an opportunity to add an international component to their degree program. It provides basic information to students to help them gain entry into international business positions.

The International Business Concentration will provide business students with detailed information about the functions of business that play an important role in the international business arena.

Students must complete each course in the concentration with a grade of "C-" or better. The courses cannot be taken pass/fail. Some courses in the concentration have prerequisites which must be satisfied. These prerequisites do not count toward the completion of the concentration. A course applied to a student's major degree program cannot be applied toward the International Business Concentration requirements. A student must complete at least thirteen six (136) upper-division semester hours in courses applied toward the International Business Concentration in residency at MSU Denver.

Required Courses

Students must select 12 semester hours from the following courses, with no more than two courses in a single prefix. At least one course must be MGT 3820 or MKT 3710. (Courses have prerequisites that must be satisfied.)

- ACC 3750 - International Accounting Credits: 3
- ECO 3550 - Global Economics and International Trade Credits: 3
- ECO 3700 - Political Economy of the Middle East and North Africa Credits: 3
- ECO 4450 - International Macroeconomics Credits: 3
- FIN 3100 - International Money and Finance Credits: 3
- MGT 3230 - International Business Law Credits: 3
- MGT 3820 - International Business Credits: 3
- MGT 3850 - Global Entrepreneurship Credits: 3
- MKT 3710 - International Marketing Credits: 3

Subtotal: 12 credits

Plus a minimum of 6 semester hours from the following courses:

- Approved international business internship*
- Approved business study abroad
- Foreign language course

Subtotal: 6 credits

Total for the International Business Concentration: 18 credits

* Cannot be a job the student is currently doing. Must be approved by the College of Business Dean.

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.
place of teaching and learning that honors both tradition and imagination, one that respects the past and prepares people to be successful participants and leaders in the present as they help to shape the future.

Academic Departments

The College of Letters, Arts and Sciences offers more than 50 major and minor programs through 19 departments and 1 Institute the Institute for Women's Studies and Services. The faculty teach the majority of the General Studies Program and help prepare students to be teachers in their content area. In addition, many of the departments arrange internships and other applied educational experiences in state and local agencies, business, industry, and the media. The College offers an interdisciplinary curriculum with programs of study in the humanities, and in social, natural, and mathematical sciences.

The College offers programs of study in 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 Arts and Sciences Communication Studies
- Department of Earth and Atmospheric Sciences
- Department of English
- Department of History
- Department of Mathematical and Computer Sciences
- 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
- 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 Family Center provides a wide range of education, training, and research on policies related to family issues.

- 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/.
• 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.

• 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/

Gerontology Programs

Several options currently exist for students interested in Gerontology. These include the following:

• Gerontology Major via the Individualized Degree Program
• Human Development major with Applied Track Gerontology in the Department of Psychology
• Social Work Major with Aging Concentration in the Department of Social Work

College of Professional Studies

Mission

The College of Professional Studies' (CPS) primary objective is student success. Through excellence in learning, CPS prepares students for professional life and post-graduate degrees. CPS 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, CPS engages Colorado with partnerships and interacts with the community as a living laboratory through meaningful internships and field placements. CPS provides opportunities and resources for the life-long learning necessary for career advancement in a global society.

Vision of the College of Professional Studies

The College of Professional Studies integrates academic excellence with real world experience for a diverse student community, striving to be the pre-eminent source of professional education in Colorado.

Departments

• Department of Aviation and Aerospace Science
• Department of Criminal Justice and Criminology
• Department of Engineering and Engineering Technology
• Department of Health Professions
• School of Hospitality, Events and Tourism
• Department of Human Performance and Sport
• Department of Human Services and Counseling
• Department of Industrial Design
• Department of Journalism and Media Production
• Department of Nursing
• Department of Nutrition
School of Hospitality, Events and Tourism

The mission of the School of Hospitality, Events, and Tourism is to provide demonstrated leadership and excellence in its baccalaureate, professional and technical programs and to render service to the students, citizens and hospitality industry of the State of Colorado. The School of Hospitality, Events, and Tourism provides flexible and individualized interdisciplinary majors in Hotel Management, Restaurant Management, Travel and Tourism Management Event and Meeting Management, Brewery Operations and Craft Brewing and Pub Operations.

School of HEaT Goals

The goals of the School are to:

• Provide instruction and professional assistance to students.
• Assist students in the development of professionalism and an attitude of continued professional growth and individual development.
• Assist students to recognize their responsibilities as members of the hospitality, tourism, and event industries and society.
• Prepare students for graduate study in Hospitality, Tourism and Events and related fields.
• Provide seminars and workshops for the Hospitality, Tourism and Events industries within Colorado and beyond.
• Conduct applied research in the fields of Hospitality, Tourism and Events.
• Increase the quality and accessibility of hospitality, tourism, and event education to citizens of Colorado and beyond.
• Provide professional assistance to the hospitality, tourism, and event industries and citizens of Colorado.

School of HEaT Student Requirements

• Meet with HEaT faculty and review a Degree Progress Report within the first semester of enrolling in MSU Denver.
• Declare one of the School's Majors of student or relevant Minors or Certificates.
• For any Bachelor of Science Degree, present verification of 600 clock hours of on the job experience in an HEaT Major at time of any hospitality-related field prior to graduation. These hours may be secured through paid job experience, cooperative education, internships, or a any combination of the three thereof. This requirement does not apply to Brewery Operations or Craft Brewing and Pub Operations degrees.
• Present Adult CPR, AED training and First Aid Certification to the School of HEaT Administration Assistant or Advisor prior to graduation.
• Maintain a grade point average of 2.5.
• A grade of "C" or better is requirement for courses in all HTE programs to count toward a Bachelor’s Degree. Students should note that programs throughout the University differ in the minimum grade required.

Bachelor of Science in Brewery Operations
The Bachelor of Science in Brewery Operations is a degree program designed for students and professionals looking to break into or further their career within the competitive 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 world of beer. Beer Industry professionals are involved in the brewhouse operations, hospitality, management, marketing, logistics, sensory development and scientific analysis of beer in a professional setting. The Bachelor of Science degree program in Brewery Operations provides a broad foundation in: 1) practical understanding and implementation of the brewing process and the ingredients of beer, 2) chemical and biological analysis and improvement of beer, 3) brewery management and operations, 4) serving, sensory, and hospitality in the world of beer, 5) packaging techniques, and draft system design 6) logistical and legal operations of the beer supply chain, 7) professional applications of theoretical knowledge. The Beer Industry Program offers two of the few bachelor degrees related specifically to beer and the brewing industry in the world. It is particularly unique because it is based out of the School of Hospitality, Events, and Tourism and is not exclusively a food science degree.

Brewery Operations Major, B.S.

Bachelor of Science in Craft Brewing & Pub Operations
The Bachelor of Science in Craft Brewing & Pub Operations is a degree program designed for students and professionals looking to break into or further their career within the competitive brewing industry, with a particular focus on small tasting rooms and brewpubs that often have a culinary component to their business. 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 a working brewpub or craft brewery. Brewpub professionals are involved in the operations, hospitality, management, marketing, sensory development, and scientific analysis of beer in a professional setting as well as the operations and management of restaurants where beer is brewed. The Bachelor of Science degree program in Craft Brewing & Pub Operations provides a broad foundation in: 1) practical understanding and implementation of the brewing process and the ingredients of beer, 2) brewpub management and operations, 3) restaurant, service and hospitality management in a brewpub setting, 4) draft quality and system design, 5) chemical, biological, and sensory analysis of beer, 6) professional applications of theoretical knowledge. The Beer Industry Program offers two of the few bachelor degrees related specifically to beer and the brewing industry in the world. It is particularly unique because it is based out of the School of Hospitality, Events, and Tourism and is not exclusively a food science degree.

Craft Brewing & Pub Operations Major, B.S.

Bachelor of Science in Event and Meeting Management
The Bachelor of Science Degree in Event and Meeting Management prepares students to become leaders in various segments of the fast growing event industry (e.g. conferences, conventions, trade shows/exhibitions, special events, weddings, corporate, government, and non-profit fundraising events). Students learn the diverse components of Event and Meeting Management including, strategic planning, vendor services, onsite operations, technology, risk management, and evaluation. The curriculum allows students to apply their theoretical knowledge into practice by participating in local, national, and international conventions and
special events. Internships and extracurricular activities via student clubs also play an important role in course enhancement and learning experiences. With the high impact learning experiences, students are better prepared for the fast-changing Event and Meeting Management job market.

Event and Meeting Management Major, B.S.

Bachelor of Science in Hotel Management
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.

Hotel Management (HTL Major), B.S.

Bachelor of Science in Restaurant Management
The Bachelor of Science Degree in Restaurant Management is designed for the student who is seeking upward mobility in foods-based industries, including restaurants, hotels, catering, food sales, food production and distribution, and nonprofits specializing in foods. Additionally, students have options to include wine studies, beer studies and urban agriculture classes to complete their degree. The Bachelor of Science Degree in Restaurant Management provides a broad-based knowledge in 1) culinary arts, 2) wines, beer and spirits, 3) several levels of accounting, 4) human resources, 5) legal issues, and 6) strategic management and leadership.

Restaurant Management Major, B.S.

Bachelor of Science in Travel and Tourism Management
The Bachelor of Science in Travel and Tourism Management, Leisure Tourism Minor, Corporate Travel Minor, Travel Consultant Certificate, and Corporate Travel Certificate are programs designed for professionals wishing to seek a career in the largest industry and the largest employer in the world and the second largest employer in Colorado: the Travel and Tourism Industry. The degree, minor, and certificate programs provide two distinct, yet related concentrations of study in leisure tourism or corporate travel.

Travel and Tourism Management (TTM) Major, B.S.

Minors
The School offers the following minors:

• Beverage Management Minor
• Brewery Operations Minor
• Corporate Travel Minor
• Culinary Arts Minor
• Event and Meeting Management Minor
• Hotel Management Minor
• Leisure Tourism Minor
• Restaurant Management Minor
• Urban Agriculture Minor

Certificate Programs
The School of Hospitality, Events, and Tourism offers certificate programs, specifically designed to help students gain the skills and practices necessary to support career changes into the hospitality profession.
• Beverage Management Certificate
• Brewery Operations Certificate
• Corporate Travel Certificate
• Culinary Arts Certificate
• Event and Meeting Management Certificate
• Hotel Management Certificate
• Restaurant Management Certificate
• Travel Consultant Certificate
• Urban Agriculture Certificate

Requirements for Certificates

Students must be accepted to the University and take courses for credit. The cost of the program is the same as undergraduate tuition for degree-seeking students. The credits achieved may also be applied to an additional bachelor’s degree if the student elects to major in one of the School’s degree programs. Students with similar courses in their prior higher education experience may request courses be transferred to meet part of the certificate requirements. At least 60% of credits in the certificate must be taken at MSU Denver and a grade of "C" or better is required. Only one substitution of required courses is allowed.

Department of Accounting

Master of Professional Accountancy

The Master of Professional Accountancy (MPAcc) program develops an in-depth competency in accounting skills and practices within each student's chosen concentration: public accounting, internal audit, fraud examination and forensic accounting, or taxation.

By providing a quality graduate-level curriculum, we prepare you for the intense, demanding requirements and expectations of the accounting profession. Courses in the MPAcc program are research based, writing intensive, leadership and teamwork oriented. No thesis is necessary. Students may participate in a service-learning course or an internship to expose them to professional practice.

Mission Statement and Program Learning Outcomes

The pursuit of excellence in teaching and learning is the department's 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 department. Service to MSU Denver, the accounting profession, the community, and society in general is a secondary albeit fundamental component of the MSU Denver Accounting Department’s mission. The department is committed to ethical values, continuous improvement, and mutual respect within a diverse campus community.

Upon completion of the program, MPAcc students will be able to demonstrate:

• Ethical awareness where ethical issues can be analyzed and ethical decisions can be made in an accounting-related setting.
• Effective communication skills where written and oral tasks are accomplished in a professional manner.
• The critical thinking and decision-making skills necessary for success in a professional setting.
• Effective leadership skills and an ability to operate well in a team-based work environment.
• A sound understanding of accounting regulation and fraud awareness in practice.
MPAcc Program Admission Options

Degree Seeking Admission Policies and Procedures

Options to Obtain the MPAcc Degree: Students who intend to complete the MPAcc degree may enter the program at one of two levels: as a post-bachelor's student known as the 4+1 Program or as a current MSU Denver undergraduate student known as the 3+2 Program.

1. Admission Policy for the 4+1 Program: The 4+1 Program is for those students who have obtained a bachelor's degree from a regionally accredited university or college regardless of area of study. Students must have completed or be in progress of completing the leveling courses prescribed during their initial advising session prior to entry into the program. Admission is competitive and designed to identify those applicants who have the ability, interest, and maturity to manage the rigors of the MPAcc program as well as potential for future professional growth. The MPAcc program coordinator, in consultation with the MPAcc admissions committee, will consider all aspects of an applicant's background.

   Leveling courses may be necessary before beginning the MPAcc program. Please contact the MPAcc coordinator for a detailed plan of study.

   Acceptance to the MPAcc program does not guarantee enrollment in all MPAcc courses. Students are expected to complete any prerequisite courses for graduate courses as needed.

2. Admission Policy for the 3+2 Program: Students in this program earn both a bachelor's and master's degree at graduation. Current matriculating MSU Denver undergraduate students may apply to the 3+2 Program after completing at least 75 credits and during or after the completion of Intermediate Accounting I (ACC 3510) and Income Taxation (ACC 3090). 3+2 students must also take the GMAT exam and official scores need to be submitted before application deadline.

   Once admitted, a student may enroll in undergraduate and graduate courses provided prerequisites have been completed for the courses.

   Benefits of the 3+2 Program: Until they accumulate 132 credit hours, 3+2 students will be classified as undergraduates for financial aid and Colorado Opportunity Fund purposes (COF applies to courses numbered 1000, 2000, 3000, and 4000 only). Students in the 3+2 Program are allowed to take graduate-level coursework while classified as an undergraduate, subject to prerequisite completion. Upon successful completion of all requirements for both degrees, students will receive both a bachelor's degree and a Master of Professional Accountancy degree during commencement.

Options to Fulfill Admissions Requirements

We offer a variety of methods for entry to the MPAcc program. Students choose from the options listed below. Only one category has to be satisfied in order to be accepted to the program.

1. Index Score: Index score is comprised of GPA and GMAT exam score
   - Index. The index is calculated using the formula [(200 x GPA) + GMAT score]. The GPA used to calculate the index score is the higher of: (1) the graduating GPA from all courses completed in the highest awarded degree, or (2) the GPA from the last 60 semester hours completed.
     - A calculated index score of 1200 or more qualifies a student for automatic admission to the program.
     - Index scores between 1000 and 1199 qualify students' applications for consideration for admission.
     - An index score below 1000 will disqualify the application for consideration for admission.
• GMAT. The Graduate Management Admission Test (GMAT) score must be submitted for review. Scores may be requested from GMAC for up to 10 years at gmac.org. The GRE, high GPA, or professional experience cannot be substituted for a GMAT score.
• GPA. No minimum GPA is required; however, past experience indicates that a 3.0 GPA, or better, in the highest degree awarded is the common threshold for successful master's students.

Or, Options Not Requiring a GMAT Score

2. Professional Licensure or Examination (such as CPA) and GPA
   • Professional licensure/examination. Official proof of having successfully passed the CPA or equivalent professional exam must be submitted for review.
   • GPA. Past experience indicates that a 3.0 GPA, or better, is the common threshold for successful master's students.

All applications in this category will be reviewed by the graduate admissions committee.

3. Earned Graduate Degree (master's degree or higher, degree-subject will be reviewed) and GPA
   • Graduate Degree. Official proof of having successfully completed a graduate degree from a regionally accredited institution must be submitted for review.
   • GPA. Past experience indicates that a 3.0 GPA, or better, is the common threshold for successful master's students.

All applications in this category will be reviewed by the graduate admissions committee.

4. Qualifying Undergraduate GPA (Overall/Accounting> (Overall GPA>= 3.25/3.25 and Accounting GPA>= 3.5))
   • 4+1 Program: Applicants to this program are eligible for automatic admission, without a GMAT score, with a Qualifying UGPA and a faculty recommendation.
   • 3+2 Program: Applicants to this program are eligible for automatic admission, without a GMAT score, with a Qualifying UGPA, a grade of "A" in Intermediate Accounting, and a minimum grade of "B" in at least one other upper division accounting course. Applicants with a Qualifying GPA and a minimum grade of "B" in Intermediate Accounting and at least one other upper division accounting course are eligible for admissions review, without a GMAT score.

Required Documentation For All Applicants Regardless of Method of Entry or Index Score:

A. An official application to Metropolitan State University of Denver and application fee.
B. Official transcripts from all previous colleges or universities attended
   1. Must be sent directly to MSU Denver from the issuing institution(s). Transcripts are accepted from students as long as transcripts are delivered/mailed to MSU Denver in the original, sealed envelope from the issuing institution(s).
   2. MSU Denver official transcripts do not need to be requested.
   3. International transcripts must also have an official English translation done by a certified translator (if applicable) and a professional course-by-course evaluation showing equivalency to a U.S. bachelor's degree or higher. World Education Services or Education Credential Evaluators are recommended professional transcript evaluation service providers. If you prefer to use another company, please contact the admissions office to confirm an evaluation from the service provider will be accepted.
C. Documentation based on your method of admission:
   1. Method 1: Official GMAT score report sent directly from GMAT.
   2. Method 2: Official proof of licensure or examination sent directly from the issuing institution, organization, etc.
D. Personal Statement Essay. This well-developed essay should help the admissions committee evaluate your readiness and capability for graduate education. The personal statement essay is a critical part of your admission application and will be the basis for evaluation of your writing skills, capacity for self-awareness, and personal growth. The maximum length of the essay should be no more than five pages (12 point font, double spaced, title page does not count towards page limit). This is not short answer.

Your essay should address: (a) the significant factors influencing your decision to pursue a Master of Professional Accountancy degree; (b) your personal philosophy, values, and professional experiences; (c) your career plans and focus in the field of accounting; (d) your strengths, unique characteristics, and leadership experiences that are relevant to the accounting profession; (e) a time you were given critical feedback and your reaction; (f) why you believe the MSU Denver’s MPAcc program is best suited for your educational and professional goals and; (g) how you will manage the rigorous demands of graduate education.

Optional: Is there anything else you would like the Admissions Committee to know about you?

While some personal information is required in the essay (e.g., your strengths), you should be judicious in the use of self-disclosure. You are not expected to disclose intimate details of your life; however, if you choose to do so, you should do so only briefly and make it clear how the issue has been resolved so that you may now succeed in the program and the profession. The Accounting Department will not provide feedback on your personal statement prior to submission.

Please note: Your writing and critical thinking skills are being evaluated in terms of readiness for graduate-level work. Be sure to include all required elements in an academic essay, using academic sources if appropriate and follow APA style. Here is a website that may be useful as you prepare your essay: https://owl.english.purdue.edu/owl/section/2/10/.

E. Current Detailed Resume. Please include work experience with start and end dates (month and year) for each position held, title, name of employer, a description of your specific duties, and indicate full-time or part time. Brevity is not necessary.

F. Three references. Do not submit reference letters. Provide names and contact information for individuals who can offer evidence of your abilities to complete graduate-level coursework For example, individuals who can address your abilities in decision-making, critical reasoning, ethics and communications should be considered.

Admission with Conditions

The department may admit students on a conditional basis. These conditions may include, but are not limited to, instances when index scores are below the minimum for automatic admission. Applicants who will be completing their undergraduate degree or prerequisite coursework at another institution of higher education need to have all official transcripts sent to the college by the application deadline. If, due to the timing of application deadlines, official transcripts related to completion of this work are not yet available, applicants must sign the Acknowledgement form related to conditions under which they would be enrolling. Submission of a final, complete transcript is required prior to registration for a subsequent semester in the MPAcc program. It is the student's responsibility to provide this information by the expected date.

Consultation with MPAcc Program Coordinator

All students accepted for admission to the program must have an advising session with the coordinator to develop a plan of study.
International Students

Additional documentation is required. Please visit the International Student Admissions Page, msudenver.edu/admissions/apply/masters/internationalgraduateapplicants/.

1. Graduate application and $70 nonrefundable application fee
2. Proof of English language proficiency (have achieved a minimum TOEFL score of 540 or a score of 76 on the internet version of the TOEFL)
3. Financial support documentation
4. Official university transcripts showing equivalency to a U.S. bachelor's or higher degree
5. Passport that includes current visa, 1-94 and 1-20

Non-Degree-Seeking Admission Policies and Procedures

Non-degree-seeking status is for those students who wish to take some courses but have no intention of completing the MPAcc degree. Non-degree-seeking students are limited to 9 credits of graduate coursework.

Enrollment as a non-degree-seeking student is limited to the following categories:

1. Individuals who have completed a bachelor's degree at a regionally accredited institution and whose cumulative undergraduate GPA or whose GPA from the last 60 hours completed is 3.0 or higher will be considered on a space available basis. Applicants need not have taken the GMAT test.
   - A GPA below a 3.0 will not be considered for admissions within this category; however, a student could apply using the index score method under degree-seeking options.
2. Individuals who are currently admitted to a graduate program at another regionally accredited university who wish to take a limited number of classes at Metropolitan State University of Denver will be considered on a space available basis.
3. Individuals who have completed a bachelor's degree at a regionally accredited institution, have passed an approved professional examination, and who wish to take graduate accounting courses for professional reasons will be considered on a space available basis.

Applicants in these categories must submit the following:

- An official application to Metropolitan State University of Denver and application fee
- Official transcripts from all colleges and universities previously attended
- Current detailed resume
- For category 2, official proof of admission to a graduate program
- For category 3, official proof of successful completion of the professional exam

Important Information for Non-Degree-Seeking Students

- Leveling courses may be necessary before beginning the MPAcc program. Please contact the MPAcc coordinator for a detailed plan of study.
- Graduate tuition applies for all graduate courses taken as a non-degree-seeking student.
- Students admitted as non-degree-seeking are not eligible for graduate-level financial aid.
- Students are held responsible, both academically and financially, for any class in which they enroll. Failure to withdraw from any class, regardless of attendance, results in a grade of "F." Students remain liable for tuition and fees.
- All grading policies for degree-seeking students also apply to non-degree-seeking students.
- Non-degree-seeking students must comply with prerequisite rules.
- Students who were previously enrolled in, or who have previously been denied admission to, the MPAcc program at MSU Denver are not eligible for non-degree-seeking status.
• Non-degree-seeking students are limited to taking a maximum of 9 graduate credit hours. Registration holds will be placed on students' accounts each semester to facilitate monitoring of credit hours.
• Non-degree-seeking students can change their status by fully complying with the degree-seeking admission requirements and submitting another application and fee.

Curriculum
This program includes a set of core, required courses in accounting, and a set of electives.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Core</td>
<td>15</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
</tr>
<tr>
<td>Total (minimum) hours for MPAcc</td>
<td>30</td>
</tr>
</tbody>
</table>

**Accounting Core**
The core coursework lays the professional accounting foundation, which includes written and oral communication skills, critical thinking skills, ethics, leadership, and teamwork.

**Required Courses**
- ACCM 5000 - Accounting Ethics, Professionalism, and Leadership **Credits:** 3
- ACCM 5020 - Communication and Accounting Research **Credits:** 3
- ACCM 5090 - Tax Research **Credits:** 3
- ACCM 5510 - Accounting Theory **Credits:** 3
- ACCM 5600 - Fraud Examination Awareness Seminar **Credits:** 3

Subtotal: **15**

**Accounting Electives**
Students are encouraged to take a wide variety of accounting electives in order to develop well-rounded skills. However, no more than 3 credits of service-learning or experiential credits may be applied toward the degree without departmental approval. The accounting department suggests the following emphases for those students who wish to specialize.

Subtotal: **15**

**Note:** ACCM 5050 - Accounting Concepts does not count towards the thirty credit hours required for the MPAcc degree

**Financial Accounting Emphasis**
The financial accounting emphasis provides a deeper understanding of GAAP and IFRS based financial statements through theoretical deconstruction and application. This concentration is research and theory intensive applying both quantitative and qualitative methodologies.
- ACCM 5060 - Commercial Law for Accountants **Credits:** 3
- ACCM 5200 - Contemporary Auditing Issues **Credits:** 3
- ACCM 5420 - International Financial Accounting, Reporting, and Analysis **Credits:** 3
- ACCM 5520 - Business Combinations **Credits:** 3
- ACCM 5550 - Contemporary Accounting Issues **Credits:** 3
- ACCM 6580 - Financial Statement Analysis and Quantitative Methods **Credits:** 3
- ACCM 6840 - Variable Topics in Accounting, Fraud, and Taxation **Credits:** 3
Internal Audit, Fraud Examination, and Forensic Accounting Emphasis

This emphasis develops professional skepticism, objectivity, and consulting skills by giving students the tools to analytically evaluate business data, assess risks and controls, reach conclusions, and make decisions.

- ACCM 5300 - Seminar in Accounting Information Systems Credits: 3
- ACCM 5400 - Strategic Cost Management Credits: 3
- ACCM 5650 - Legal Elements of Fraud Credits: 3
- ACCM 5800 - Applied Internal Auditing Credits: 3
- ACCM 5802 - Performance Auditing Credits: 3
- ACCM 5820 - Data Analysis for Fraud and Litigation Credits: 3
- ACCM 5901 - Internal Audit Projects Credits: 3
- ACCM 6600 - Occupational Fraud Credits: 3

Taxation Emphasis

The tax emphasis is ideal for students interested in, or currently working with the United States tax code. Suggested courses delve into the advanced topics pertaining to various entities and situations.

- ACCM 6080 - Tax Leadership and Management Credits: 3
- ACCM 6090 - Tax Practice and Procedure Credits: 3
- ACCM 6100 - Taxation of Corporations and Shareholders I Credits: 3
- ACCM 6140 - Taxation of Partners and Partnerships Credits: 3
- ACCM 6110 - Taxation of Corporations and Shareholders II Credits: 3
- ACCM 6160 - Taxation of International Transactions Credits: 3
- ACCM 6840 - Variable Topics in Accounting, Fraud, and Taxation Credits: 3

Additional Course Offerings

Additional courses provide students the ability to create an emphasis in small business consulting or teaching accounting.

- ACCM 5810 - Small Business Consulting and Accounting Credits: 3
- ACCM 5980 - Master's Accounting Internship Credits: 3
- ACCM 6900 - Teaching of Accounting Credits: 3
- ACCM 6950 - Accounting Research Credits: 1-3

Department of Communication Arts and Sciences

Department of Communication Studies

This department includes the majors of Communication Studies and Speech, Language, Hearing Sciences.

Communication Studies

- Communication Studies Major, B.A.
- Communication Studies Minor (formerly Speech Communication)

The Communication Studies Program at MSU Denver 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.

Students can focus on one of three concentration areas:
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 students graduates have achieved success 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.

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 an optional concentration in Childhood Communication designed for educators and 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 show they have completed some prerequisite coursework to apply to graduate school in speech-language pathology or audiology.

Speech, Language, Hearing Sciences Major, B.A.

(program moving to the newly created Department of Speech, Language and Hearing Sciences)

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.

A minor is required for students majoring in SLHS. Options include, but are not limited to: biology, gerontology, linguistics, psychology, Spanish, special education, or speech communication. Students must earn a grade of "C-" or better in all SLHS courses.

For students planning to seek a graduate degree in speech-language pathology or audiology and/or work as a speech-language pathology assistant.

Required Prerequisite Courses

Required prerequisite 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
• CAS 1010 - Public Speaking Credits: 3
— Subtotal: 11 credits

Required Courses

• BIO 2310 - Human Anatomy and Physiology I Credits: 4
• ENG 2010 - Introduction to Linguistics Credits: 3
• SLHS 2530 - Speech and Hearing Science Credits: 3
• SLHS 2890 - Language Acquisition Credits: 3
• SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
• SLHS 3540 - Clinical Phonetics Credits: 3
• SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
• SLHS 3600 - Diagnostic Audiology Credits: 3
• SLHS 4500 - Principles of Assessment and Intervention Credits: 3
• SLHS 4510 - Child Language Disorders Credits: 3
• SLHS 4610 - Rehabilitative Audiology Credits: 3

• SLHS 1500 - Introduction to Communication Sciences Credits: 3
—or
• CAS 3760 - Diversity and Communication in the U.S. Credits: 3 *
— Subtotal: 38 credits
— *Course has additional prerequisites that must be satisfied.

Elective Courses

Select at least 4 credits from the following courses:

• SLHS 1500 - Introduction to Communication Sciences Credits: 3
• SLHS 1610 - American Sign Language I Credits: 3
• SLHS 1620 - American Sign Language II Credits: 3
• SLHS 3590 - School Speech-Language Intervention Credits: 3
• SLHS 4511 - Neurogenic Language Disorders in Adults Credits: 1
• SLHS 4550 - Speech-Language Pathology Assistant Methods Credits: 7
— Subtotal: 4 credits

— Total Required for SLHS Major: 42 credits

The American Speech-Language-Hearing Association recommends that undergraduates take a course in: a) statistics, b) physics or chemistry, and c) social/behavioral sciences.

Childhood Communication Concentration

The Childhood Communication Concentration within the SLHS major will provide early childhood educators with an option to concentrate their study of communication science in the area of language from birth to age
This concentration is not designed to prepare students for graduate education in speech-language pathology or audiology.

Required Prerequisite Courses

Required prerequisite courses may be used to fulfill General Studies requirements.

- CAS 1010 - Public Speaking Credits: 3
- MTH 1110 - College Algebra for Calculus Credits: 4 or MTH 1112 - College Algebra Through Modeling
- PSY 1001 - Introductory Psychology Credits: 3

Subtotal: 10 credits

Required Courses

- SLHS 1500 - Introduction to Communication Sciences Credits: 3
- SLHS 1610 - American Sign Language I Credits: 3
- SLHS 2530 - Speech and Hearing Science Credits: 3
- SLHS 2890 - Language Acquisition Credits: 3
- SLHS 3540 - Clinical Phonetics Credits: 3
- SLHS 3590 - School Speech-Language Intervention Credits: 3
- SLHS 4500 - Principles of Assessment and Intervention Credits: 3
- ENG 2010 - Introduction to Linguistics Credits: 3
- THE 3200 - Oral Interpretation Credits: 3
- PSY 3250 - Child Psychology Credits: 3
- PSY 3340 - Cognitive Development and Learning Credits: 3

Subtotal: 33 credits

Elective Courses

Select at least 9 credits; 3 credits for students meeting requirements for Early Childhood Education student teaching. Students who satisfy all licensure requirements for student teaching in Early Childhood Education at MSU Denver may take 3 credits of elective(s) to complete the SLHS major in 36 credits. Early Childhood Education licensure students may substitute MTH 1610 and MTH 2620 for MTH 1110. See the School of Education for requirements. Students who wish to apply in the future to graduate school in speech-language pathology or audiology are referred to the SLHS major without the Childhood Communication concentration.

- ECE 3750 - The Young Culturally and Linguistically Diverse Learner Credits: 3
- RDG 3530 - Foundations of Language and Literacy for English Language Learners in Elementary Classrooms Credits: 3
- SLHS 1620 - American Sign Language II Credits: 3
- SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
- CAS 1710 - Interpersonal Communication Credits: 3
- CAS 3760 - Diversity and Communication in the U.S. Credits: 3 *

Subtotal: 3 or 9 credits

Total for Concentration: 42 credits (36 credits for students meeting requirements for Early Childhood Education student teaching)

*Course has additional prerequisites that must be satisfied.
Speech, Language, Hearing Sciences Minor

(program moving to the newly created Department of Speech, Language and Hearing Sciences)

Students seeking a Speech, Language, Hearing Sciences minor are required to take a minimum of 21 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.

Required Courses: 9 credits

• SLHS 1500 - Introduction to Communication Sciences Credits: 3
• SLHS 2530 - Speech and Hearing Science Credits: 3
• SLHS 2890 - Language Acquisition Credits: 3

Additional Elective Courses: 12 credits

Select four courses from the following list:

• SLHS 1610 - American Sign Language I Credits: 3
• SLHS 1620 - American Sign Language II Credits: 3
• SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
• SLHS 3540 - Clinical Phonetics Credits: 3
• SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
• SLHS 3590 - School Speech-Language Intervention Credits: 3
• SLHS 3600 - Diagnostic Audiology Credits: 3
• SLHS 4510 - Child Language Disorders Credits: 3
• SLHS 4610 - Rehabilitative Audiology Credits: 3
• THE 3200 - Oral Interpretation Credits: 3

Note: SLHS 1620, SLHS 3580, SLHS 3590, SLHS 4610, and THE 3200 have prerequisites that must be satisfied.

Total: 21 credits

Speech, Language, Hearing Sciences - Leveling Certificate

(program moving to the newly created Department of Speech, Language and Hearing Sciences)

This certificate allows students with a bachelor's degree in a field other than speech, language, and hearing sciences (SLHS) to demonstrate completion of a specific sequence of foundational courses required by most graduate programs in speech-language pathology and audiology. Students who hold a leveling certificate have obtained prerequisite coursework to pursue a graduate degree in speech-language pathology or audiology.

MSU Denver prerequisites to SLHS 2530, SLHS 2890 and SLHS 3511 will be waived for certificate-seeking students. However, students who lack background in algebra, human anatomy & physiology and/or English grammar should consider taking recommended math, linguistics and/or biology 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.

Required Courses

• SLHS 2530 - Speech and Hearing Science Credits: 3
• SLHS 2890 - Language Acquisition Credits: 3
• SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
• SLHS 3540 - Clinical Phonetics Credits: 3
• SLHS 3580 – Speech, Sound and Fluency Disorders Credits: 3
• SLHS 4510 – Child Language Disorders Credits: 3
• SLHS 3600 – Diagnostic Audiology Credits: 3
• SLHS 4610 – Rehabilitative Audiology Credits: 3

Total Credits / Units: 24

ASHA Requirements

Prior to certification as a speech-language pathologist, the American Speech-Language-Hearing Association (ASHA) requires that courses be taken at the undergraduate level in: a) biology, b) physics, c) statistics, and d) social/behavioral sciences. Some graduate programs will not accept students without prior completion of these courses. Students are urged to contact ASHA (asha.org) for further information.

Speech-Language Pathology Assistant Certificate

(program moving to the newly created Department of Speech, Language and Hearing Sciences)

This certificate prepare students to obtain the Colorado Department of Education Authorization for Speech-Language Pathology Assistants. This authorization requires that a student have a bachelor's degree in Speech, Language, and Hearing Sciences (SLHS) or a bachelor's degree in another field and the completion of all certificate requirements. MSU Denver prerequisites to SLHS 2530, SLSH 2980, and SLHS 3511 will be waived for these students. Entrance to the SLPA certificate program requires a 2.5 GPA in prerequisite SLHS courses and a grade of "C" or better in each certificate course.

MSU Denver prerequisites to SLHS 2530, SLHS 2890 and SLHS 3511 will be waived for certificate-seeking students. However, students who lack background in algebra, human anatomy & physiology and/or English grammar should consider taking recommended math, linguistics and/or biology 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. Entrance to the SLPA certificate program requires a 2.5 GPA in prerequisite SLHS courses and a grade of "C" or better in each certificate course.

Prerequisite Courses
• SLHS 2530 – Speech and Hearing Science Credits: 3
• SLHS 2890 – Language Acquisition Credits: 3
• SLHS 3511 – Anatomy and Physiology of Speech Credits: 4
• SLHS 3540 – Clinical Phonetics Credits: 3
• SLHS 3600 – Diagnostic Audiology Credits: 3

Required Courses
• SLHS 3580 – Speech, Sound and Fluency Disorders Credits: 3
• SLHS 4500 – Principles of Assessment and Intervention Credits: 3
• SLHS 4510 – Child Language Disorders Credits: 3
• SLHS 4550 – Speech-Language Pathology Assistant Methods Credits: 7
• SLHS 4610 – Rehabilitative Audiology Credits: 3

Total: 19 credits
Department of Criminal Justice and Criminology

Cybersecurity Major, B.S.

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.

The B.S. in Cybersecurity is an extended major which does not require a minor. Each of the three departments offers 18 to 27 credit hours toward the major.

A minimum grade of "C" is required for a course to count toward the major. The B.S. in Cybersecurity program does not allow plus and minus grades.

General Studies Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication</td>
<td>CAS 1010 - Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>CAS 1010 - Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td>MTH 1310 - Finite Mathematics for the Management and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits: 4 Any course approved for General Studies Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with the exception of MTH 1080</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>PHI 3370 - Computers, Ethics, and Society</td>
<td>6</td>
</tr>
<tr>
<td>Historical</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural and Physical Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social and Behavioral Sciences I</td>
<td>CJC 1010 - Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits: 3</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences II</td>
<td>PSY 1001 - Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits: 3</td>
<td></td>
</tr>
<tr>
<td>Global Diversity</td>
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<tr>
<td>Total General Studies (GS)</td>
<td></td>
<td>37</td>
</tr>
</tbody>
</table>

Multicultural requirement: 3 credit hours

Pre-Major Requirement: 0-6 Credit Hours

- CIS/CSS 1010 - Introduction to Computers Credits: 3 (Students can waive CIS/CSS 1010 by passing a placement test)
- CJC 1010 - Introduction to the Criminal Justice System Credits: 3
Cybersecurity Major Coursework Requirements

**CYB Required Courses: (Total 18 Credit Hours)**
- CYB 2001 - Cyber Laws and Regulations **Credits:** 3
- CYB 2500 - Criminal Investigation **Credits:** 3
- CYB 3980 - Internship in Cybersecurity **Credits:** 6
- CYB 4990 - Capstone Seminar in Cybersecurity **Credits:** 3 [Senior Experience]
- CYB Elective (Choose from any CYB Elective) **Credits:** 3

**CJC Required Courses: (Total 9 Credit Hours)**
- CJC 3210 - White-Collar Crime **Credits:** 3
- CJC 3420 - Organized Crime **Credits:** 3
- CJC 3800 - Federal Law Enforcement **Credits:** 3

**CIS Required Courses: (Total 18 Credit Hours)**
- 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: (Total 18 Credit Hours)**
- 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

**B.S. in Cybersecurity Major Total Required Credit Hours: 63**

**Master of Science in Cybersecurity**

**Master of Cybersecurity**

The Departments of Criminal Justice and Criminology, Computer Information Systems and Business Analytics, and Mathematical and Computer Sciences jointly offer the Master of Cybersecurity (CYBM). The Department of Criminal Justice and Criminology houses and administers the CYBM Program.

MSU Denver’s Master of Cybersecurity is an interdisciplinary program that combines the knowledge of cyber laws/policies, with a theoretical understanding of cyber-criminal behavior, and advanced computer science and information systems solutions.

**Mission Statement and Goals**

The mission of the CYBM program is to provide students with in-depth knowledge as well as practical skills in both policy and analysis of computer and network security, privacy, computer forensics, and the investigation, prosecution, and punishment of cybercrime. The CYBM program:
1. Offers a multidisciplinary curriculum that combines the areas of computer science, computer information systems, cyber laws and policies, with an understanding of cyber-crimes and criminals;
2. Enables students with either a technical or non-technical undergraduate field of study to obtain a graduate degree in cybersecurity;
3. Prepares students to enter management or technical positions at all levels in the field of cybersecurity, and
4. Provides students with leadership skills and an ability to work well in a team-based work environment.

Competencies

The National Initiative for Cybersecurity Education (NICE) developed the National Cybersecurity Workplace Framework, and the U.S. Department of Labor (DOL) developed Industry Competency Model. The CYBM competencies use the above framework and model as guides. The CYBM graduates will be able to:

1. Identify, analyze, and mitigate threats to computer and information systems.
2. Conceptualize, design, and build secure information systems.
3. Provide support to ensure effective and efficient computer and information system performance and security.
4. Provide leadership, management, strategy, development, and advocacy so that organizations may effectively conduct cybersecurity work.
5. Investigate cyber events or crimes of computer and information systems and networks.
6. Apply cyber laws and regulations in prosecuting and punishing cyber criminals.
7. Be responsible for specialized denial and deception operations and collection of cybersecurity information that may be used to develop intelligence.

Admission to the CYBM Program:

To be admitted to the CYBM program, candidates must:

- Submit graduate application and application fee
- Submit a curriculum vitae or resume
- Hold a baccalaureate from an accredited college or university.
- Submit official transcripts from all institutions of higher education previously attended. A minimum undergraduate GPA 3.0 on a scale of 4.0 is required.
- Submit a Graduate Record Examination (GRE) score.
- Satisfactorily complete a placement test, prior to admission to the CYBM program. The placement test will be waived for applicants who have an undergraduate degree in computer science or computer information systems. The placement test is free of charge.
  - Students who fail the placement test will be required to take one or more bridge courses.
  - Suggested bridge courses may include, but not limited to, CIS/CSS 1080 (3) and Math 1310 (4) or equivalent. Other bridge courses will be determined on a case-by-case basis.

In addition, international admissions must include the following:

- TOEFL (Test of English as a Foreign Language): Obtain a minimum score of 76 on the Internet-based TOEFL (iBT) (an equivalent of 533 on the paper-based TOEFL (PBT)). An official score must be sent.
directly from TOEFL Services; MSU Denver's institution code is 4505. Scores older than two years are not acceptable.

- IELTS (International English Language Testing System): Obtain an overall band score of at least 6.0. An official score must be sent directly from the testing company. Scores older than two years old are not acceptable.

- Transcript evaluation- Foreign colleges/universities should send transcripts in English or translated into English directly to MSU Denver. If this is not possible, students should provide official transcripts in their original language for examination; these will be photocopied and returned. A professional course-by-course translation and evaluation completed by a professional transcript evaluation service is also required. For more information regarding the transcript evaluation requirement, visit https://msudenver.edu/admissions/student-types/internationalstudents/applicationrequirements/ then select the college transcripts dropdown.

- Required immigration documents for issuances of an I-20- See the office of Admissions for specific requirements https://msudenver.edu/admissions/student-types/internationalstudents/applicationrequirements/

Application Deadline

For fall admission, the application deadline is May 1 for all domestic applicants. For international applicants, the application deadline is April 1.

All Required Application Materials

For the full list of application materials for the CYBM program, please visit the CYBM Program website @ https://www.msudenver.edu/cybersecurity.

Non-degree-seeking Admission Guidelines:

Students may be admitted to the CYBM graduate degree program with a non-degree-seeking status. Non-degree-seeking students do not qualify for financial aid and must re-apply and pay a new application fee in order to become degree seeking. Completing coursework as a non-degree-seeking student does not guarantee admission into a degree program. Students may take up to 12 credit hours. These credits will count toward transfer credits if the student is admitted as a CYBM degree-seeking student.

Non-degree-seeking Applicants Must Submit the Following:

- Graduate application and application fee.
- Official transcripts from all institutions of higher education previously attended.
- Curriculum vitae or resume.

Transfer Student Admission Guidelines

- No more than six (6) graduate-level transfer credits (semester hours or equivalent) will be accepted for the CYBM program. The credits must have been completed no longer than six years prior to the admission term and must be from a regionally accredited, U.S. institution or equivalent.
The CYBM Program has discretion over acceptance of transfer courses. A minimum grade of "B" is required for each transfer course. Applicants should check the CYBM program website and/or contact a program advisor for details.

Please visit the CYBM Program website for more information on how to request the transfer of credits into the CYBM Program @ https://www.msudenver.edu/cybersecurity.

Credit for Prior Learning or Life Experience

The CYBM does not offer any credits from learning gained through life experience toward the CYBM degree.

Testing Out Policy

The CYBM does not provide an option to test out of any coursework at the graduate level.

Readmission Policy

Students who have not been in attendance for three consecutive semesters including summer must reapply to the CYBM Program. Students seeking readmission must be in good academic standing.

CYBM Program students who are eligible for readmission should submit the following materials:

- Readmission After Leave of Absence Form (located on the CYBM Program website https://www.msudenver.edu/cybersecurity.
- The MSU Denver general graduate application and fee.
- Students who are readmitted into the CYBM Program will be held to the policies and curriculum of the later term in which they officially restart the CYBM Program.
- An approved readmit application is valid for one academic year (including summer) from the readmit semester.
- Students who are not in good academic standing are not eligible for the readmit application process and must fully apply to the CYBM Program.

Financial Aid Information

There is a lot of information involved in applying for and receiving financial aid. Please visit MSU Denver Graduate Financial Aids @ https://msudenver.edu/financialaid/graduate/ for more information.

Degree Completion

Graduate Course Registration Eligibility

Only students who are formally accepted into the CYBM graduate program or non-degree-seeking status may register for any CYBM graduate courses.

GPA Requirements

Students in the CYBM Program must complete the degree with a cumulative GPA of 3.0 or higher. Any student falling below a 3.0 average in any given term will be placed on academic probation. Students who fail to raise their GPA to 3.0 or above after 15 credit hours will be dismissed from the CYBM program.

No grade lower than a "C" will count toward the degree. Students receiving a "D" or below will be required to repeat the course.
Duplicative Coursework

The CYBM program does not allow any course to count toward both a master's degree and a bachelor's degree.

Course Load

Students may enroll in no more than nine (9) credits per semester for fall, spring, or summer semesters without the approval of all the involved departments.

Residency Requirement

The University residency requirement for master's programs is the total number of semester hours required for the program minus nine (9).

Grades and Notations

The CYBM Program does not grant plus and minus grades. Students should refer to the Academic Policies and Procedures section of the Graduate Catalog for a listing of all grades and notations including incompletes and withdrawals.

Program Policy for Incomplete Notation

In addition to adhering to the University requirement for Incomplete eligibility, CYBM students who have any outstanding incompletes at the start of the following semester will receive an automatic performance review which may result in an altered academic plan.

Time Limit on Completion of Degree

Students must complete the CYBM degree within six calendar years from the term they initially enroll. Students should check the program website @ www.msudenver.edu/cybersecurity and specific program section of the catalog to determine specific degree requirements.

Advancement to Candidacy

All CYBM students must successfully complete all CYBM courses (totaling 36 credit hours) including CYBM 6001 (Capstone) and complete the senior project.

A review of a candidate's plan of study and progress must be conducted as soon as all the minimum requirements have been met and no later than the first day of the term in which the student expects to complete the degree. Minimum requirements for the review include completion of any provisional admission requirements, an approved plan of study that will lead to meeting the degree requirements, posting of any transfer work to the student's record, and a grade point average of "B" or better in all work completed to that point. Successful completion of the review and approval by the appropriate faculty advisors, or student services office and the Office of Graduate Studies constitutes Advancement to Candidacy.

The Student Code of Conduct

The Student Code of Conduct will apply to all MSU Denver students, regardless of level. Access the Student Code of Conduct from MSU Denver website @ www.msudenver.edu.
Internship

Internship is not required for the CYBM program. However, students may take the internship (CYBM 6000) for 3 credit hours. To be eligible, students must have completed 24 credit hours of the CYBM courses and instructor's permission.

**CYBM Curriculum**

**CYBM Program Core Requirements** 36 credit hours required:

- CYBM 5000 (Cyber Laws/Regulations and Prosecution) 3
- CYBM 5001 (Cybercrime Investigation) 3
- CYBM 5002 (Theories of Cybercrime) 3
- CYBM 5020 (Cybersecurity Infrastructure) 3
- CYBM 5021 (Network and Internet Security) 3
- CYBM 5022 (Intrusion Detection and Prevention) 3
- CYBM 5023 (Computer and Mobile Device Forensics) 3
- MBA/CYBM 5205 (Information Systems Strategy Planning) 3 (Existing course)
- CYBM 5242 (Security Risk Analysis and Risk Management) 3
- CYBM 5244 (Incident Detection and Response) 3
- CYBM 5248 (Information Assurance) 3
- CYBM 6001 (Capstone) 3

Note: CYBM 6000 (Internship in Cybersecurity) 3 (Internship is optional; students cannot substitute any other required courses with the internship)

**Required Courses**

The Departments of Criminal Justice and Criminology, Computer Information Systems and Business Analytics, and Mathematical and Computer Sciences jointly offer the Master of Cybersecurity (CYBM). The Department of Criminal Justice and Criminology houses and administers the CYBM Program.

MSU Denver's Master of Cybersecurity is an interdisciplinary program that combines the knowledge of cyber laws/policies, with a theoretical understanding of cyber-criminal behavior, and advanced computer science and information systems solutions.

- CYBM 5000 - Cyber Laws/Regulations and Prosecution Credits: 3
- CYBM 5001 - Cybercrime Investigation Credits: 3
- CYBM 5002 - Theories of Cybercrime Credits: 3
- CYBM 5020 - Cybersecurity Infrastructure Credits: 3
- CYBM 5021 - Network and Internet Security Credits: 3
- CYBM 5022 - Intrusion Detection and Prevention Credits: 3
- CYBM 5023 - Computer and Mobile Device Forensics Credits: 3
• CYBM 5205 - Information Systems Strategy Planning Credits: 3
• CYBM 5242 - Security Risk Analysis and Risk Management Credits: 3
• CYBM 5244 - Incident Detection and Response Credits: 3
• CYBM 5248 - Information Assurance Credits: 3
• CYBM 6001 - Cybersecurity Capstone Credits: 3

Electives

More electives will be added as the program grows.

• CYBM 6000 - Internship in Cybersecurity Credits: 3

Note: CYBM 6000 (Internship in Cybersecurity) - 3 (Internship is optional; students cannot substitute any other required courses with the internship)

Total Required Credits: 36

STEMpath Cybersecurity Certificate

Program Description

MSU Denver’s Graduate STEMPath Certificate of Cybersecurity is an interdisciplinary program that combines the knowledge of cyber laws/policies, advanced computer science and information systems solutions for individuals not seeking a MS in cybersecurity but wants to teach cybersecurity classes to K-12 level students. MSU Denver offers this certificate to current teachers with an existing BA/BS degree who teach in the Colorado Public School system. This certificate will provide increased knowledge and understanding of the skills needed to teach cybersecurity to K-12 students. Both GRE test and any graduate placement test are not required for this certificate. Should students apply for MS degree in cybersecurity, these tests will be required.

For students enrolled in this certificate, the cost for tuition will be the same as CYBM. Students with similar courses in their prior experience may request that courses be transferred to meet part of the certificate requirements.

This is a 24-credit hour certificate.

Admission to the CYBM STEMPath Certificate:

To be admitted to the CYBM STEMPath Certificate candidates must:

• Submit graduate application and application fee
• Be a current Colorado school teacher that has been approved by his/her school district or their representative - paperwork for this requirement must be submitted
• Hold a baccalaureate degree from an accredited college or university.
• Submit official transcripts from all institutions of higher education previously attended. A minimum undergraduate GPA 3.0 on a scale of 4.0 is required

Application Deadline

For fall admission, the application deadline is June 1.
Credit for Prior Learning or Life Experience

The Graduate STEMPath Certificate of Cybersecurity allows up to 9 credit hours of prior learning experience in the following areas:

- Career literacy and workforce readiness for the fields of Computer Science, Information Technology, and Cybersecurity with an emphasis on equity and accessibility in the classroom
- Training to implement a culture of innovation through strategic thinking
- Training in information science.

Testing Out Policy

- The Graduate STEMPath Certificate of Cybersecurity does provide an option to test out of 9 credit hours of coursework at the graduate level if they have experience, knowledge, and skills in the above three areas.

For this certificate, students can test out or receive prior learning credit for a total of 9 credit hours. They cannot combine these paths.

Readmission Policy

Students who seek readmission should contact the MSU Denver Cybersecurity department. Students seeking readmission must also be in good academic standing.

Degree Completion

Graduate Course Registration Eligibility

Only students who are formally accepted into the Graduate STEMPath Certificate of Cybersecurity Certificate program can register for any Graduate STEMPath Certificate of Cybersecurity Certificate courses.

GPA Requirements

Students in the Graduate STEMPath Certificate of Cybersecurity must complete the degree with a cumulative GPA of 3.0 or higher. No grade lower than a “C” will count toward the degree. Students receiving a “D” or below will be required to repeat the course.

Duplicative Coursework

The Graduate STEMPath Certificate of Cybersecurity does not allow any course to count toward either the B.S. in Cybersecurity or the Master’s Degree in Cybersecurity.

Grades and Notations

The Graduate STEMPath Certificate of Cybersecurity does not grant plus and minus grades. Students should refer to the Academic Policies and Procedures section of the Graduate Catalog for a listing of all grades and notations including incomplete and withdrawals.

Program Policy for Incomplete Notation

Students who have an incomplete notation should contact a MSU Denver advisor for assistance.

Teaching Cybersecurity

These courses allow students to understand how to teach cybersecurity topics to K-12 students. Students with similar courses in their prior experience may request that courses be transferred to meet this part of the certificate requirements.

- CYBM 5500 Equity Center Career Literacy Credits: 3
• CYBM 5501 Equity Center Design Thinking Credits: 3
• CYBM 5502 Equity Center Information Science Credits: 3

Externship and Field Work
These courses help develop the hands on skills needed to demonstrate cybersecurity practices to high school students.
• CYBM 5506 Equity Center Externship Credits: 3
• CYBM 5507 Externship Part II Credits: 3

Basics of Programming, Networking, and Cybersecurity
• CYBM 5503 Cybersecurity Regulations and Law Credits: 3
• CYBM 5504 Introduction to Programming and Algorithms Credits: 3
• CYBM 5505 Information Technology Systems Credits: 3

Total Credit Hours
24 credit hour certificate

Department of Earth and Atmospheric Sciences

Environmental Science Major, B.A., B.S., with Secondary Science Teacher Licensure Concentration
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.

Required General Studies Courses
• ENG 1010 - Composing Arguments Credits: 3
• ENG 1020 - Research and Argument Writing Credits: 3
• CAS 1010 - Public Speaking Credits: 3
• General Studies Quantitative Literacy (met by MTH 1210 in the additional courses required for licensure)
• General Studies Historical (3 credits)*
• General Studies Arts and Humanities (6 credits)*
• General Studies Natural and Physical Sciences (met by additional science content area courses)
• General Studies Social and Behavioral Sciences I and II (met in licensure sequence by EDS 3130 and EDS 3150)

General Studies Total: 18
*Included in General Studies courses, students must select one that satisfies the Global Diversity requirement.
Environmental Science Major Core Courses

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 Core Total: 34

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

Total for Environmental Science Major: 46 credits

Additional Content Courses Required for Science Licensure

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

Additional Content Course Total: 18

Secondary Education Foundation and Methods Courses

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. All courses must be passed with a grade of C- or better. 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 *
- 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 **
- RDG 3280 - Teaching Content Literacy Skills Credits: 3 **
- SCI 3950 - Teaching Science in Secondary Schools Credits: 3 **
- SCI 3960 - Field Experience in Teaching Science in Secondary Schools Credits: 1 **
- EDS 4290 - Student Teaching and Seminar: Secondary 7-12 Credits: 6,12 **

Secondary Education Total: 37

*Requires at least provisional admission to the School of Education

**Requires formal admission to the School of Education

Environmental Science Major B.A. B.S. with Secondary Science Licensure Concentration Grand Total: 119*

*Students must have 120 credits to graduate with a bachelor's degree.

Department of Finance

The finance program 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 managerial corporate finance, personal financial planning, and the financial services industry. The field of managerial 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 Department 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.
- Financial Services Minor
- General Finance Minor
- Personal Financial Planning Certificate

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 Minor
- Pre-Healthcare Minor
- Recreation Professions Major, B.A.
- Recreation Services 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.

Recreation Professions Major, B.A.

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.

Core Courses:

- **RECR 1870 - Introduction to Recreation and Park Services Recreation, Leisure, and Well-Being Credits: 3**
- **RECR 2110 - Recreation Leadership Skills and Techniques Credits: 4**
- **RECR 3330 - Introduction to Therapeutic Recreation Services Credits: 3**
- **RECR 3840 - Design and Maintenance of Recreation and Park Resources Credits: 4**
- **RECR 3870 - Internship Seminar for Recreation and Park Professions Credits: 2**
- **RECR 3970 - Practicum in Recreation, Parks, or Therapeutic Recreation Credits: 3**
- **RECR 4110 - Program Development in Recreation Services Credits: 3**
- **RECR 4130 - Administration of Recreation and Park Services Credits: 3**
- **RECR 4850 - Advanced Administration and Evaluation Credits: 3**
- **RECR 4890 - Internship in Recreation, Parks, or Therapeutic Recreation Credits: 10-14**

*10 - 14 hours of internship required with a minimum GPA of 2.75.*

- **PSY 2210 - Psychology of Human Development Credits: 3**

Subtotal for Core: 41-45

Notes:

* Requires a minimum 2.75 GPA

Current Adult, Infant, and Child CPR with First Aid certification or First Aid Basics and Community CPR certifications are required and can be obtained through the American Red Cross, American Heart Association, or equivalent organizations. Online training will NOT be accepted as meeting this requirement. Students who would like more advanced training may substitute “Emergency Response” and “CPR for the Professional Rescuer” certification which are satisfied through completion of HPS 2060.
Areas of Concentration:

Therapeutic Recreation Services:

*Extended major, no minor required. Students must have a minimum of 120 credit hours to graduate from the University.*

**Required Courses:**

- Core courses: 41-45 credits
- BIO 3230 - Principles of Human Anatomy and Physiology for Secondary Education **Credits:** 5
- RECR 3430 - Program Development in Therapeutic Recreation **Credits:** 3
- RECR 3530 - Techniques in Therapeutic Recreation **Credits:** 4
- RECR 4030 - Issues and Trends in Therapeutic Recreation **Credits:** 3
- RECR 4150 - Advanced Techniques in Therapeutic Recreation **Credits:** 4
- PSY 3620 - Abnormal Psychology **Credits:** 3

Select a minimum of 6 credits, in consultation with your academic advisor, of courses with prefixes of HCM, HSP, ITP, PSY, SOC.*

**Subtotal:** 28

**Total required for the Recreation Services Major, Concentration in Therapeutic Recreation Services:** 69-73

**Note:**

*Students must have a minimum of 18 credits of supportive coursework for National Council for Therapeutic Recreation Certification eligibility.*

Recreation Management:

*Extended major, no minor required. Students must have a minimum of 120 credits to graduate from the University.*

**Required Courses:**

- MGT 3000 - Organizational Management **Credits:** 3
- MGT 3530 - Human Resources Management **Credits:** 3
- MKT 3000 - Principles of Marketing **Credits:** 3

Select a minimum of 10 credits of RECR electives, such as:

- RECR 2010 - Play Across Cultures **Credits:** 3
- RECR 3930 - Contemporary Issues in Recreation and Parks: Variable Topics **Credits:** 1-3

*Courses are numbered 393A-Z and are one to three credits.

- RECR 3990 - Field Experience in Recreation and Park Professions **Credits:** 1-3

*Courses are numbered 399A-Z and are one to three credits.

- RECR 2210 - Managing Outdoor Recreation Programs, Nature, Leadership, and Outdoor Recreation **Credits:** 3
- RECR 2330 - Advocacy, Leisure, and the Aging Adult **Credits:** 3
- RECR 4550 - Aquatic Management **Credits:** 3
- RECR 4630 - Recreation Programs for the Older Adult **Credits:** 3
- RECR 4810 - Grants and Grant Writing in the Health Professions **Credits:** 3
- SPA 1010 - Elementary Spanish I **Credits:** 5
• SPA 1020 - Elementary Spanish II Credits: 5

Subtotal: 19

Total required for the Recreation Services Major, Concentration in Recreation Management: 60-64

Recreation Generalist:

Extended major, no minor required. Students must have a minimum of 120 credits to graduate from the University.

Required Courses:

• Core Courses: 41-45 credits

Select a minimum of 12 credits from the following:

• RECR 3430 - Program Development in Therapeutic Recreation Credits: 3
• RECR 3530 - Techniques in Therapeutic Recreation Credits: 4
• RECR 3930 - Contemporary Issues in Recreation and Parks: Variable Topics Credits: 1-3
• RECR 3990 - Field Experience in Recreation and Park Professions Credits: 1-3
• RECR 4030 - Issues and Trends in Therapeutic Recreation Credits: 3
• RECR 4150 - Advanced Techniques in Therapeutic Recreation Credits: 4
• RECR 4550 - Aquatic Management Credits: 3
• RECR 4630 - Recreation Programs for the Older Adult Credits: 3
• RECR 4810 - Grants and Grant Writing in the Health Professions Credits: 3

Select a minimum of 7 credits:

In consultation with an academic advisor in Recreation Services, select a minimum of 7 credits from courses with the following prefixes: HCM, ITP, HSP, HPS, PSY, SOC, MGT, MKT, SPA, ENV.

Subtotal: 19

Total required for the Recreation Services Major, Concentration in Recreation Generalist: 60-64

Outdoor Recreation

The Outdoor Recreation program provides scholarly instruction and practical experiences to prepare students as skilled professionals and leaders in the outdoor domain. The program provides 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. Extended major, no minor required. Students must have a minimum of 120 credit hours to graduate from the University.

Required Courses:

Core courses: 41-45 credits

• ENV 1200 Introduction to Environmental Science Credits: 3
• ENV 4200 Environmental Policy and Planning Credits: 3
• NUT 2040 Introduction to Nutrition Credits: 3
• RECR 2210 Managing Outdoor Recreation Programs, Nature, Leadership, and Outdoor Recreation Credits: 3
• RECR 3860 Self-Assessment for Outdoor Recreation Professionals Credits: 2
• RECR 3960 Instruction and Facilitation of Outdoor Recreation Professionals Credits: 3
• RECR 4960 The Ethics of Recreation Credits: 3

Outdoor Recreation Activities
Select a minimum of 12, advisor approved, RECR Outdoor Recreation Activity courses

Select a minimum of 6 credits:

In consultation with an academic advisor in Recreation Services, select a minimum of 6 credits with the following prefixes: RECR, SM, HPS, HPL, EXS. Or select from the following:

- ENV 2100 Basic Water Sampling and Analysis Credits: 3
- ENV 3400 Water Resources Credits: 3
- ENV 3700 Mountain Environments Credits: 3
- GIS 1220 Introduction to Geospatial Sciences Credits: 3
- NUT 3200 Nutrition and Sports Performance Credits: 3
- MTR 1400 Weather and Climate Credits: 3
- MTR 1600 Global Climate Change Credits: 3
- PETE 1665 Methods of Teaching Outdoor Education Credits: 3

Subtotal: 38

Total required for the Recreation Services Major, Concentration in Outdoor Recreation: 79-83

Note:

Current Wilderness First Responder (WFR) is required at the completion of the program. Students who would like more advanced training may substitute Outdoor Emergency Care (OEC), Emergency Medical Technician (EMT), or Wilderness Emergency Medical Technician (WEMT).

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

Department of Mathematical and Computer Sciences

Mathematics Major, B.S.

The Department of Mathematical and Computer Sciences 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.

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). Students should note that programs differ in the minimum grade required. The department strongly recommends that students interested in the applied mathematics concentration take sections of calculus using Mathematica.

Basic Mathematics Core:

• 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

Total: 15 credits

Notes:

*Some sections of this course have a Mathematica component.
**All sections of this course have a Mathematica component.

Note:

All majors are required to complete a minor unless they are dual majors or majors receiving concurrent or second degrees. 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 MTH 4640. 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
Probability and Statistics
Applied Mathematics
Mathematics Education
Theoretical Mathematics
General Concentration:

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:

- Basic Core: 15 credits

One of the following four courses:

- 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

Subtotal: 19

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: 3
  
  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
Subtotal: 22
Total: 41
Note:
*Only one of the three courses MTH 2140, MTH 3130, and MTH 3140 can be counted.

**Applied Mathematics Concentration:**

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 and strongly recommends that students interested in this concentration take sections of calculus using Mathematica software. A grade of "C-" or better is required in each course included in the major.

**Required Courses:**

• Basic Core: 15

One of the following three courses:
• CS 1050 - Computer Science 1 Credits: 4
• MTH 2510 - Computer Programming with Mathematica Credits: 4
• MTH 2520 - R Programming Credits: 4

All four of the following courses:
• 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:
• 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.
• 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.

Total: 42

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.

Mathematics Education Concentration:
The Department of Mathematical and Computer Sciences offers a major in Mathematical Sciences with a concentration in Mathematics Education and the option of secondary licensure.

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; (2) the pedagogical knowledge of mathematics needed to begin a career as a middle or high school mathematics teacher; and (3) the state requirements for obtaining licensure.

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 and currency requirements stated below. 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.
Please note: This major requires a minor. Students seeking licensure in Mathematics Education should declare a Mathematics Major and a Secondary Education Minor.

Required Courses:

Basic Core: 15

Advanced Mathematics

- MTH 3110 - Abstract Algebra I Credits: 3
- MTH 3140 - Linear Algebra Credits: 4 *
- MTH 3210 - Probability and Statistics Credits: 4
- MTH 3470 - Introduction to Discrete Mathematics and Modeling Credits: 4
- MTH 3650 - Foundations of Geometry Credits: 3
- MTH 4640 - History of Mathematics Credits: 4 **

Subtotal: 22

Mathematics Education Coursework

- MTL 3850 STEM Teaching and Learning Credits: 2
- MTL 3858 STEM Teaching and Learning Practicum Credits: 1

Subtotal: 3

Mathematics or Computer Science Elective (Choose ONE of the following):

- CS 1030 - Computer Science Principles Credits: 4
- CS 1050 - Computer Science 1 Credits: 4
- CSS 1247 - Introduction to Programming: Visual Basic Credits: 4
- MTH 2510 - Computer Programming with Mathematica Credits: 4
- Any 3000 or 4000 level MTH course except MTH 3240
- Any MTL course except MTL 3600

Subtotal: 3-4

Notes:

* MTH 3130 and one of the following (MTH 4110 or MTH 4150 or MTH 4410 or MTH 4660) may substitute for MTH 3140.

** Senior Experience Course

Total: 40-41 43-44

Professional Education Sequence in Secondary Mathematics:

(To Complement the Mathematics Education Concentration)

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. Students should pay particular attention to corequisites and prerequisites.

Required Courses:

Foundations:

- EDT 3010 - Integrating Educational Technology into Teaching 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
• 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
• MTL 4690 - Student Teaching and Seminar: Secondary 7-12 Credits: 12
• RDG 3280 - Teaching Content Literacy Skills Credits: 3

Additional Licensure Requirements:
• MTL 3620 - Mathematics of the Secondary Curriculum Credits: 4
• MTL 3630 - Teaching Secondary Mathematics Credits: 3
• MTL 3638 - Secondary Mathematics Field Experience Credits: 2

Total: 42

Probability and Statistics Concentration:
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:
Basic Core: 15
All of the following courses:
• 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:
• MTH 3130 - Advanced Matrix Methods for the Physical Sciences Credits: 4
• MTH 3140 - Linear Algebra Credits: 4

One of the following three courses:
• CS 1050 - Computer Science 1 Credits: 4
• MTH 2520 - R Programming Credits: 4
• MTH 3510 - SAS Programming Credits: 4

One of the following five courses:
• MTH 3230 - Stochastic Processes Credits: 4
• MTH 3270 - Data Science Credits: 4
• MTH 3430 - Mathematical Modeling Credits: 4
• MTH 4250 - Statistical Theory Credits: 4
Theoretical Mathematics Concentration:

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:

Basic Core: 15

One of the following courses:

- 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 3510 - SAS Programming Credits: 4

All four of the following courses:

- MTH 3110 - Abstract Algebra I Credits: 3
- 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:

- MTH 4110 - Abstract Algebra II Credits: 3
- MTH 4150 - Elementary Number Theory Credits: 3
- MTH 4450 - Complex Variables Credits: 4
- MTH 4660 - Topology Credits: 3

Total: 39-40

Note:

* MTH 3130 and one of the following (MTH 3650 or MTH 4150 or MTH 4640) may substitute for MTH 3140.

Department of Nursing

Nursing Major - Accelerated Nursing Option, B.S.

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.

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.

Multicultural Graduation Requirement

Select a course from the approved multicultural list.
Prerequisite Courses

- BIO 2310 Human Anatomy and Physiology I Credits: 4
- BIO 2320 Human Anatomy and Physiology II Credits: 4
- BIO 2400 General Microbiology Credits: 5
- CHE 1100 Principles of Chemistry Credits: 4
- CHE 1150 Principles of Chemistry 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

Prerequisite Total 32

Required Courses:

- 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: 5
- 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: 4
- NURA 4850 - Nursing Senior Experience Credits: 5

Total: 63

Totals

Multicultural Graduation Requirements = 3 credits
Prerequisite Courses = 32 credits
Required Courses = 63 credits

Nursing Major - Traditional Nursing Option, B.S.

Program Requirements

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. A grade of "C" or better is required for each nursing course in this program to count toward the Bachelor's degree. Students should note that programs differ in the minimum grade required.

General Studies Requirements

Written Communication: 6 credits
- ENG 1009 Stretch Composing Arguments B Credits: 3
OR

• ENG 1010 - Composing Arguments Credits: 3
• ENG 1020 - Research and Argument Writing Credits: 3

Oral Communication: 3 credits
• CAS 1010 - Public Speaking Credits: 3

OR

• CAS 1710 - Interpersonal Communication Credits: 3

Quantitative Literacy: 4 credits
• MTH 1210 - Introduction to Statistics Credits: 4

Arts and Humanities: 6 credits
• See the General Studies section of this catalog for approved courses.**

Historical: 3 credits
• See the General Studies section of this catalog for approved courses.**

Natural and Physical Sciences: 9 credits
• BIO 1080 - General Biology I Credits: 3 *
• BIO 1090 - General Biology Laboratory I Credits: 1 *
• 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

Social and Behavioral Sciences I: 3 credits
• See the General Studies section of this catalog for approved courses.*

Social and Behavioral Sciences II: 3 credits
• PSY 1001 - Introductory Psychology Credits: 3

Global Diversity Requirement
• See the General Studies section of this catalog for approved courses.**

Students must 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 I.

General Studies Total: 37 credits

Multicultural Graduation Requirement
• Select a course from the approved multicultural list.**

Students must fulfill the Multicultural Graduation Requirement by taking an approved course within one of the following General Studies categories: Arts and Humanities, Historical, or Social and Behavioral Sciences I.
Prerequisite Courses

Some prerequisite courses will also fulfill prescribed General Studies requirements.

• BIO 2310 - Human Anatomy and Physiology I Credits: 4
• BIO 2320 - Human Anatomy and Physiology II Credits: 4
• BIO 2400 - General Microbiology Credits: 5
• CHE 1100 Principles of Chemistry Credits: 4
• CHE 1150 Principles of Chemistry 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

Prerequisite Total: 23-32 credits

Courses Required for Major

• 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: 5
• 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: 4
• NURS 4850 - Nursing Senior Experience Credits: 5

Major Course Total: 63 credits

Totals

General Studies Total: 37 credits
Prerequisite Total: 23-32 credits
Major Total: 63 credits

GRAND TOTAL: 123 credits

Notes

* See course description for corequisites.

** Certain General Studies courses also meet the Multicultural or Global Diversity requirement.
Department of Nutrition

Nutrition Science Major, B.S.

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 be awarded a degree, students must maintain a minimum grade point average of 3.0 or higher in the major.

**General Studies Course Requirements**

Written Communication (6 credits required):
(Courses chosen by student; see catalog for course options)

Oral Communication (3 credits required):
(Courses chosen by student; see catalog for course options)

Quantitative Literacy (4 credits required):
- MTH 1210 Introduction to Statistics Credits: 4

Arts and Humanities (6 credits required):
(Courses chosen by student; see catalog for course options)**

Historical (3 credits required):
(Courses chosen by student; see catalog for course options)**

Natural and Physical Science (9 credits required by major):
- BIO 1080 General Biology I Credits: 3
- BIO 1090 General Biology Laboratory I Credits: 1
- CHE 1800 General Chemistry I Credits: 4
- CHE 1801 General Chemistry I Laboratory Credits: 1

Social and Behavioral Sciences I (3 credits required):
(Courses chosen by student; see catalog for course options)**

Social and Behavioral Sciences II (3 credits required):
- PSY 1001 Introductory Psychology Credits: 3

**Total General Studies Hours for Major: 37**

**Required Courses:**
- BIO 1081 General Biology II Credits: 3
- 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 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
• 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 4700 Medical Nutrition Therapy I Credits: 3
• NUT 4750 Medical Nutrition Therapy II Credits: 3
• 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

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

Students are required to take a Senior Experience course. Options include: NUT 4720 - Pre-Professional Seminar in Nutrition and Dietetics; CHE 4960 - Senior Experience in Biochemistry; HON 4950 - Senior Honors Thesis; or other pending Department approval. Senior Standing is required for enrollment in Senior Experience courses.

**Total Hours for Major: 71**

**Note:**

* This course satisfies the Multicultural requirement.

** One of these courses must satisfy the Global Diversity requirement.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>37</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>71</td>
</tr>
<tr>
<td>Unrestricted Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total credits for the B.S. in Nutrition Science**

| Total credits for the B.S. in Nutrition Science | 120 |

**Total Credits for B.S. in Nutrition Science: 120**
Department of Management

Entrepreneurship Major, B.A.

All candidates for a Bachelor of Arts degree in Entrepreneurship must satisfy the General Studies requirements, Entrepreneurship Major requirements, and Minor area requirements described in the following sections. The basic structure of the B.A. in Entrepreneurship program is:

### B.A. Entrepreneurship Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>General Studies</td>
<td>33</td>
</tr>
<tr>
<td>Major in Entrepreneurship</td>
<td>54</td>
</tr>
<tr>
<td>Minor</td>
<td>18-24</td>
</tr>
<tr>
<td>Unrestricted General Electives*</td>
<td>9-15</td>
</tr>
<tr>
<td><strong>Total Hours (minimum)</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

*Unrestricted general elective credits will vary depending on the choice of Minor. Total unrestricted general electives must be sufficient for the student to meet MSU Denver's minimum required 120 semester hours.

**Note:** MSU Denver's Multicultural requirement may be satisfied by taking an approved Multicultural course in the General Studies or the unrestricted general electives portion of the program requirements.

### General Studies Requirements

The academic foundation for a successful business career or graduate work is a broad liberal arts education.

#### Written Communication

- ENG 1010 - Composing Arguments **Credits:** 3

  or

- ENG 1009 - Stretch Composing Arguments B **Credits:** 3
- ENG 1020 - Research and Argument Writing **Credits:** 3

  or

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

#### Oral Communication

- Oral Communication Elective **Credits:** 3 (CAS 1010 - Public Speaking **Credits:** 3 or CAS 1710 - Interpersonal Communication **Credits:** 3 recommended)

#### Quantitative Literacy

- Quantitative Literacy Elective **Credits:** 3

#### Arts and Humanities

- Arts and Humanities Elective **Credits:** 6

#### Historical

- Historical Elective **Credits:** 3

#### Natural and Physical Sciences

- Natural and Physical Sciences Electives **Credits:** 6
Social and Behavioral Sciences I
- ECO 2010 - Principles of Macroeconomics **Credits:** 3

Social and Behavioral Sciences II
- ECO 2020 - Principles of Microeconomics **Credits:** 3

Global Diversity
Students may satisfy the Global Diversity requirement by completing any course designated as Global Diversity within one of the following General Studies categories: Arts and Humanities; Historical; or Natural and Physical Sciences. Students may also use an unrestricted general elective to satisfy this requirement.

**Total for General Studies Requirements: 33 credits**

**Entrepreneurship Major Requirements**
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 fourteen required courses (42 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**
- 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
- BUS 3040 - Global Corporate Social Responsibility and Sustainability **Credits:** 3
- MGT 2210 - Legal Environment of Business I **Credits:** 3
- MGT 2500 - Fundamentals of Small Business Management and Entrepreneurship **Credits:** 3
- MGT 3000 - Organizational Management **Credits:** 3
- MGT 3020 - Entrepreneurs: Cases and Studies **Credits:** 3
- MGT 3850 - Global Entrepreneurship **Credits:** 3
- MGT 4420 - Entrepreneurial Business Planning **Credits:** 3 *
- MKT 3000 - Principles of Marketing **Credits:** 3

- PSY 1001 - Introductory Psychology **Credits:** 3
  or
- SOC 1010 - Introduction to Sociology **Credits:** 3

**Subtotal: 42 credits**

*MGT 4420 Entrepreneurial Business Planning serves as the Senior Experience for the B.A. in Entrepreneurship.*

**Approved Entrepreneurship Electives**
Select four courses from below:
• FIN 2250 - Personal Money Management \textbf{Credits:} 3

• MGT 3860 - Social Entrepreneurship \textbf{Credits:} 3

or

• MKT 3190 - Marketing for Social Good \textbf{Credits:} 3

• MGT 3220 - Legal Environment of Business II \textbf{Credits:} 3
• MGT 3240 - Employment and Human Resource Law \textbf{Credits:} 3
• MGT 3260 – Managing Business Risk \textbf{Credits:} 3
• MGT 3530 - Human Resources Management \textbf{Credits:} 3
• MGT 3550 - Operations Management \textbf{Credits:} 3
• MGT 3980 - Internship in Management \textbf{Credits:} 1-15

• MGT 4050 - Purchasing and Supply Chain Management \textbf{Credits:} 3

or

• MKT 3410 - Marketing Channels \textbf{Credits:} 3

• MGT 4550 - Project Management \textbf{Credits:} 3
• MGT 4850 - Organizational and Management Consulting \textbf{Credits:} 3
• MKT 3100 - Retail Marketing \textbf{Credits:} 3

• MKT 3110 - Advertising Management \textbf{Credits:} 3

or

• MKT 3120 - Promotional Strategy \textbf{Credits:} 3

• MKT 3250 - Personal Selling \textbf{Credits:} 3
• MKT 3300 - Marketing of Services \textbf{Credits:} 3
• MKT 3310 - Consumer Behavior \textbf{Credits:} 3
• MKT 3910 - New Product Development \textbf{Credits:} 3
• MKT 4300 - Social Media Marketing \textbf{Credits:} 3

\textbf{Subtotal: 12 credits}

\textbf{Total for Entrepreneurship Major Requirements: 54 credits}

\textbf{Note}

To earn a Bachelor of Arts degree in Entrepreneurship, a student must successfully complete thirty (30) or more credit hours of business coursework at MSU Denver. This 30-hour residency requirement can be met by completing any College of Business course with a course number of at least 2000, except FIN 2250. 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.

A grade of "C-" or better must be earned in each Entrepreneurship Major course in order to have that course count toward the Bachelor of Arts degree in Entrepreneurship.

Students may take more than four entrepreneurship elective courses. Additional entrepreneurship courses will be counted as unrestricted general electives.

**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
- 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

**Environmental Science Major, B.A. B.S., with Secondary Science Teacher Licensure Concentration**

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.

Required General Studies Courses
- ENG 1010 - Composing Arguments Credits: 3
- ENG 1020 - Research and Argument Writing Credits: 3
- CAS 1010 - Public Speaking Credits: 3
- General Studies Quantitative Literacy (met by MTH 1210 in the additional courses required for licensure)
- General Studies Historical (3 credits)*
- General Studies Arts and Humanities (6 credits)*
- General Studies Natural and Physical Sciences (met by additional science content area courses)
- General Studies Social and Behavioral Sciences I and II (met in licensure sequence by EDS 3130 and EDS 3150)

General Studies Total: 18
*Included in General Studies courses, students must select one that satisfies the Global Diversity requirement.

Environmental Science Major Core Courses
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 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 Core Total: 34

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

Total for Environmental Science Major: 46 credits

Additional Content Courses Required for Science Licensure

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

Additional Content Course Total: 18

Secondary Education Foundation and Methods Courses

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. All courses must be passed with a grade of C- or better. 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 *
• 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 **
• RDG 3280 - Teaching Content Literacy Skills Credits: 3 **
• SCI 3950 - Teaching Science in Secondary Schools Credits: 3 **
• SCI 3960 - Field Experience in Teaching Science in Secondary Schools Credits: 1 **
• EDS 4290 - Student Teaching and Seminar: Secondary 7-12 Credits: 6,12 **

Secondary Education Total: 37

*Requires at least provisional admission to the School of Education

**Requires formal admission to the School of Education

Environmental Science Major B.A. B.S. with Secondary Science Licensure Concentration Grand Total: 119*
*Students must have 120 credits to graduate with a bachelor's degree.

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

Department of Speech, Language and 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 an optional concentration in Childhood Communication designed for educators and 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 show they have completed some prerequisite coursework to apply to graduate school in speech-language pathology or audiology.

**Speech, Language, Hearing Sciences Major, B.A.**

*(program moving to the newly created Department of Speech, Language and Hearing Sciences)*

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.

A minor is required for students majoring in SLHS. Options include, but are not limited to: biology, gerontology, linguistics, psychology, Spanish, special education, or speech communication. Students must earn a grade of "C-" or better in all SLHS courses.

For students planning to seek a graduate degree in speech-language pathology or audiology and/or work as a speech-language pathology assistant.

**Required Prerequisite Courses**

Required prerequisite 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
- CAS 1010 - Public Speaking **Credits:** 3

**Subtotal:** 11 credits

**Required Courses**
• BIO 2310 - Human Anatomy and Physiology I Credits: 4
• ENG 2010 - Introduction to Linguistics Credits: 3

Or

• **ENG 3011 Analyzing English Credits: 3**
• SLHS 2530 - Speech and Hearing Science Credits: 3
• SLHS 2890 - Language Acquisition Credits: 3
• SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
• SLHS 3540 - Clinical Phonetics Credits: 3
• SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
• SLHS 3600 - Diagnostic Audiology Credits: 3
• SLHS 4500 - Principles of Assessment and Intervention Credits: 3
• SLHS 4510 - Child Language Disorders Credits: 3
• SLHS 4610 - Rehabilitative Audiology Credits: 3

• SLHS 1500 - Introduction to Communication Sciences Credits: 3

or

• **CAS 3760 - Diversity and Communication in the U.S. Credits: 3** *

Subtotal: 38 credits

*Course has additional prerequisites that must be satisfied.*

Elective Courses
Select at least 4 credits from the following courses:

• SLHS 1500 - Introduction to Communication Sciences 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 3590 - School Speech-Language Intervention Credits: 3
• SLHS 4511 - Neurogenic Language Disorders in Adults Credits: 1
• SLHS 4550 - Speech-Language Pathology Assistant Methods Credits: 7

Subtotal: 4 credits

Total Required for SLHS Major: 42 credits

The American Speech-Language-Hearing Association recommends that undergraduates take a course in: a) statistics, b) physics or chemistry, and c) social/behavioral sciences.

Childhood Communication Concentration

The Childhood Communication Concentration within the SLHS major will provide early childhood educators with an option to concentrate their study of communication science in the area of language from birth to age 18. This concentration is not designed to prepare students for graduate education in speech-language pathology or audiology.

Required Prerequisite Courses
Required prerequisite courses may be used to fulfill General Studies requirements.

- CAS 1010 - Public Speaking Credits: 3
- MTH 1110 - College Algebra for Calculus Credits: 4 or MTH 1112 - College Algebra Through Modeling
- PSY 1001 - Introductory Psychology Credits: 3

Subtotal: 10 credits

Required Courses

- SLHS 1500 - Introduction to Communication Sciences Credits: 3
- SLHS 1610 - American Sign Language I Credits: 3
- SLHS 2530 - Speech and Hearing Science Credits: 3
- SLHS 2890 - Language Acquisition Credits: 3
- SLHS 3540 - Clinical Phonetics Credits: 3
- SLHS 3590 - School Speech-Language Intervention Credits: 3
- SLHS 4500 - Principles of Assessment and Intervention Credits: 3
- ENG 2010 - Introduction to Linguistics Credits: 3
- THE 3200 - Oral Interpretation Credits: 3
- PSY 3250 - Child Psychology Credits: 3
- PSY 3340 - Cognitive Development and Learning Credits: 3

Subtotal: 33 credits

Elective Courses
Select at least 9 credits; 3 credits for students meeting requirements for Early Childhood Education student teaching. Students who satisfy all licensure requirements for student teaching in Early Childhood Education at MSU Denver may take 3 credits of elective(s) to complete the SLHS major in 36 credits. Early Childhood Education licensure students may substitute MTH 1610 and MTH 2620 for MTH 1110. See the School of Education for requirements. Students who wish to apply in the future to graduate school in speech-language pathology or audiology are referred to the SLHS major without the Childhood Communication concentration.

- ECE 3750 - The Young Culturally and Linguistically Diverse Learner Credits: 3
- RDG 3530 - Foundations of Language and Literacy for English Language Learners in Elementary Classrooms Credits: 3
- SLHS 1620 - American Sign Language II Credits: 3
- SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
- CAS 1710 - Interpersonal Communication Credits: 3
- CAS 3760 - Diversity and Communication in the U.S. Credits: 3 *

Subtotal: 3 or 9 credits

Total for Concentration: 42 credits (36 credits for students meeting requirements for Early Childhood Education student teaching)

*Course has additional prerequisites that must be satisfied.

Speech, Language, Hearing Sciences Minor

(program moving to the newly created Department of Speech, Language and Hearing Sciences)
Students seeking a Speech, Language, Hearing Sciences minor are required to take a minimum of 21 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.

Required Courses: 9 credits
- SLHS 1500 - Introduction to Communication Sciences Credits: 3
- SLHS 2530 - Speech and Hearing Science Credits: 3
- SLHS 2890 - Language Acquisition Credits: 3

Additional Elective Courses: 12 credits
Select four courses from the following list:
- 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 3511 - Anatomy and Physiology of Speech Credits: 4
- SLHS 3540 - Clinical Phonetics Credits: 3
- SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
- SLHS 3590 - School Speech-Language Intervention Credits: 3
- SLHS 3600 - Diagnostic Audiology Credits: 3
- SLHS 4510 - Child Language Disorders Credits: 3
- SLHS 4610 - Rehabilitative Audiology Credits: 3
- THE 3200 - Oral Interpretation Credits: 3

Note: SLHS 1620, SLHS 3580, SLHS 3590, SLHS 4610, and THE 3200 have prerequisites that must be satisfied.

Total: 21 credits

Speech, Language, Hearing Sciences - Leveling Certificate
(program moving to the newly created Department of Speech, Language and Hearing Sciences)

This certificate allows students with a bachelor's degree in a field other than speech, language, and hearing sciences (SLHS) to demonstrate completion of a specific sequence of foundational courses required by most graduate programs in speech-language pathology and audiology. Students who hold a leveling certificate have obtained prerequisite coursework to pursue a graduate degree in speech-language pathology or audiology.

MSU Denver prerequisites to SLHS 2530, SLHS 2890 and SLHS 3511 will be waived for certificate-seeking students. However, students who lack background in algebra, human anatomy & physiology and/or English grammar should consider taking recommended math, linguistics and/or biology 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.

Required Courses
- SLHS 2530 - Speech and Hearing Science Credits: 3
- SLHS 2890 - Language Acquisition Credits: 3
- SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
- SLHS 3540 - Clinical Phonetics Credits: 3
- SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
- SLHS 4510 - Child Language Disorders Credits: 3
ASHA Requirements

Prior to certification as a speech-language pathologist, the American Speech-Language-Hearing Association (ASHA) requires that courses be taken at the undergraduate level in: a) biology, b) physics, c) statistics, and d) social/behavioral sciences. Some graduate programs will not accept students without prior completion of these courses. Students are urged to contact ASHA (asha.org) for further information.

Speech-Language Pathology Assistant Certificate

(program moving to the newly created Department of Speech, Language and Hearing Sciences)

This certificate prepare students to obtain the Colorado Department of Education Authorization for Speech-Language Pathology Assistants. This authorization requires that a student have a bachelor's degree in Speech, Language, and Hearing Sciences (SLHS) or a bachelor's degree in another field and the completion of all certificate requirements. MSU Denver prerequisites to SLHS 2530, SLSH 2980, and SLHS 3511 will be waived for these students. Entrance to the SLPA certificate program requires a 2.5 GPA in prerequisite SLHS courses and a grade of "C" or better in each certificate course.

MSU Denver prerequisites to SLHS 2530, SLHS 2890 and SLHS 3511 will be waived for certificate-seeking students. However, students who lack background in algebra, human anatomy & physiology and/or English grammar should consider taking recommended math, linguistics and/or biology 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. Entrance to the SLPA certificate program requires a 2.5 GPA in prerequisite SLHS courses and a grade of “C” or better in each certificate course.

Prerequisite Courses

- SLHS 2530 - Speech and Hearing Science Credits: 3
- SLHS 2890 - Language Acquisition Credits: 3
- SLHS 3511 - Anatomy and Physiology of Speech Credits: 4
- SLHS 3540 - Clinical Phonetics Credits: 3
- SLHS 3600 - Diagnostic Audiology Credits: 3

Required Courses

- SLHS 3580 - Speech, Sound and Fluency Disorders Credits: 3
- SLHS 4500 - Principles of Assessment and Intervention Credits: 3
- SLHS 4510 - Child Language Disorders Credits: 3
- SLHS 4550 - Speech-Language Pathology Assistant Methods Credits: 7
- SLHS 4610 - Rehabilitative Audiology Credits: 3

Total: 19 credits
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

• Biology
• Chemistry and Biochemistry
• Health Professions
• Human Performance and Sport
• Human Services and Counseling
• Nursing
• Nutrition
• Psychological Sciences
• Social Work
• Speech, Language, and 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/for-professionals/careers/healthcare-interest-program
• Peer Health Exchange: https://msudenver.edu/health-institute/communitypartners/
Course Description (Graduate)
(N) – New Course  (M) – Modified Course

Master of Business

(N) MBA 5109 Tax Research
Credits: 3
Prerequisite(s): ACC 3090 with grade of “C” or better or permission of the instructor.
Description: The purpose of this course is to conduct in-depth tax research applicable to federal tax law, including the use of traditional and computerized tax services. The emphasis is on tax planning principles.
Crosslisted: ACCM 5090

(N) MBA 5160 Fraud Examination Awareness Seminar
Credits: 3
Description: This course examines various aspects of fraud with a focus on how and why fraud is committed and how fraud can be deterred or prevented. Students address issues related to forensic accounting and ethics within a framework of fraudulent matters.
Crosslisted: ACCM 5600

(N) MBA 5181 Small Business Consulting and Accounting
Credits: 3
Prerequisite(s): ACCM 5020 with grade of “C” or better
Description: This course focuses on the skills necessary to provide accounting services to a small business. Students provide accounting services and advice to local small businesses.
Crosslisted: ACCM 5810

Master of Professional Accountancy

(M) ACCM 5090 Tax Research
Credits: 3
Prerequisite(s): ACC 3090 with grade of “C” or better or permission of the instructor.
Description: The purpose of this course is to conduct in-depth tax research applicable to federal tax law, including the use of traditional and computerized tax services. The emphasis is on tax planning principles.
Crosslisted: MBA 5191

(M) ACCM 5600 Fraud Examination Awareness Seminar
Credits: 3
Description: This course examines various aspects of fraud with a focus on how and why fraud is committed and how fraud can be deterred or prevented. Students address issues related to forensic accounting and ethics within a framework of fraudulent matters.
Crosslisted: MBA 5160

(M) ACCM 5810 Small Business Consulting and Accounting
Credits: 3
Prerequisite(s): ACCM 5020 with grade of “C” or better
Description: This course focuses on the skills necessary to provide accounting services to a small business. Students provide accounting services and advice to local small businesses.

Crosslisted: MBA 5181

STEMpath Cybersecurity

(N) CYBM 5500 CYBM Equity Center Career Literacy

Credits: 3
Description: This is the introductory course for the STEMpath Graduate Certificate in Technology. The course provides training in career literacy and workforce readiness for the fields of Computer Science, Information Technology, and Cybersecurity with an emphasis on equity and accessibility in the classroom. Participants will complete experiential learning tasks aimed at attaining career literacy and work-based skills. This course builds on the students’ own educational background and prepares them for additional certification in Technology to help them teach classes, at the K-12 level, in the fields of Computer Science, Information Technology, and Cybersecurity.

(N) CYBM 5501 CYBM Equity Center Design Thinking

Credits: 3
Description: This is the introductory course for the STEMpath Cybersecurity Certificate in Technology. The course provides training to implement a culture of innovation through strategic thinking with a prominent focus on equity. The activities and experiences will include creative problem-solving simulations, human-centered explorations with authentic users in the community, hands-on prototyping with a variety of supplies and tools, and robust feedback-reflection-iteration loops.

This course builds on the students’ own educational background and prepares them for additional certification in Technology to help them teach classes, at the K-12 level, in the fields of Computer Science, Information Technology, and Cybersecurity.

(N) CYBM 5502 CYBM Equity Center Information Science

Credits: 3
Description: This course for the STEMpath Cybersecurity Certificate in Technology provides interdisciplinary training in information science. Participants will gain practical concepts and skills required to succeed in a technology-enabled, information economy. The activities and experiences will focus on communication, collaboration, productivity, and innovation with an emphasis on equity and accessibility in the classroom. This course builds on the students’ own educational background and prepares them for additional certification in Technology to help them teach classes, at the K-12 level, in the fields of Computer Science, Information Technology, and Cybersecurity.

(N) CYBM 5503 Cybersecurity Regulations and Laws

Credits: 3
Description: This course is twofold. First, it provides a broad overview of cybersecurity. The terminology, approaches, and underlying technologies used in cybersecurity are covered. Understanding of common cyber-attacks, risks, and techniques for identifying, detecting, and defending against cybersecurity threats are addressed. Social engineering, cryptography, and network and application security are introduced.

Second, this course introduces current cyber regulations and laws as they relate to cybersecurity. Students will examine the role, both by private and public sectors, in securing cyberspace. Students will also examine
legal/policy and ethical issues such as privacy, surveillance, civil liberties and constitutional protections in securing cyberspace. Finally, the course will explore emerging compliance frameworks for cybersecurity.

(N) CYBM 5504 Introduction to Programming and Algorithms

Credits: 3
Description: This course is an introduction to programming and basic algorithms. The focus of this course is on the fundamental programming techniques in a modern high-level programming language and the use of basic algorithms to solve computational problems. Discussion covers the use of flowcharts and pseudocode, the creation of prototypes that use algorithms for solving computational problems, the creation of named variables representing various data types and lists/arrays, control structures including loops and conditions, problem decomposition, the implementation of procedures using functions or methods, and the design, development, and documentation of programs.

(N) CYBM 5505 Information Technology Systems

Credits: 3
Description: Hardware, software, and their interaction is covered, along with the foundations for finding where errors typically occur in IT systems. An overview of networking technology with emphasis on the layered approach and the related protocols is covered. How data are collected, represented, presented, analyzed, and applied is covered. The creation of a set of data via simple programming is addressed.

(N) CYBM 5506 CYBM Equity Center Externship

Credits: 3
Prerequisite(s): CYBM 5500, CYBM 5501, CYBM 5502
Description: This intensive industry externship provides technology-relevant, work-based skills and experiences in the fields of Computer Science, Information Technology, and Cybersecurity. Participants will work on industry-assigned, project-based work and complete a culminating capstone project.

(N) CYBM 5507 CYBM Externship Part II

Credits: 3
Prerequisite(s): CYBM 5500, CYBM 5501, CYBM 5502
Description: This intensive industry externship provides technology-relevant, work-based skills and experiences in the fields of Computer Science, Information Technology, and Cybersecurity. Participants will work on industry-assigned, project-based work and complete a culminating project presentation.

Course Description (Undergraduate)
(N) – New Course (M) – Modified Course (C) Conversion of Omnibus to Regular Course (R) Reactivation of Archived Course (TO) Transfer of Ownership

Advanced Manufacturing Sciences Institute

(M) AMS 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.

Department of Communication Arts and Sciences

Department of Communication Studies

(below SLHS courses are moving to the newly created Department of Speech, Language and Hearing Sciences)

(TO/M) SLHS 1500 - Introduction to Communication Sciences

**Credits:** 3

**Description:** This course introduces students to typical communication across the lifespan, the relationship between culture and communication, and the impact of communication disorders on individual and family. Speech, language, and hearing anatomy, disorders, and intervention options are introduced. 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 II

(TO) SLHS 2530 Speech and Hearing Science

**Credits:** 3

**Prerequisite(s):** MTH 1110 or MTH 1112 or permission of instructor

**Description:** This course introduces acoustics of speech reception within the auditory system and acoustics of speech production within the vocal tract. A number of disorders interfering with normal sound transmission are introduced. Students learn about speech and hearing professionals, current technology for assessment and intervention, and strategies to enhance reception and production of acoustic energy.

(TO) SLHS 2890 Language Acquisition

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 2010 or ENG 3011 or SLHS 1500 or PSY 1800 or permission of instructor

**Description:** This course allows students to investigate theories of language development and describe language developmental patterns in toddler, preschool and school-age children. The interrelationship between linguistic, cognitive and social competencies in communicative development will be explored. Students will gain knowledge concerning the diversity of normal communicative development found in a pluralistic society.

(TO) SLHS 2990 Introduction to Health Communication

**Credits:** 3

**Prerequisite(s):** CAS 1010 or CAS 1710 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, CAS or SLHS.

**Cross-Listed Course(s):** CAS 2990

(TO) SLHS 3511 Anatomy and Physiology of Speech
Credits: 4
Prerequisite(s): BIO 2310 and SLHS 2530 with a grade of “C” or better in both; or permission of instructor
Description: This course provides students with a basic understanding of the structural organization (anatomy), function (physiology), and neural control of the structures used to produce speech, swallowing, respiration and related human behaviors. Students explore how anatomical and physiological deficits relate to communicative pathology. The course includes lecture and laboratory components and involves dissection.

Note: Credit will be granted for only one prefix: SLHS or BIO.

Cross Listed Course(s): BIO 3511

(TO) SLHS 3540 Clinical Phonetics
Credits: 3
Prerequisite(s) or Corequisite(s): SLHS 2890
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.

(TO) SLHS 3580 Speech, Sound and Fluency Disorders
Credits: 3
Prerequisite(s): SLHS 2890 and SLHS 3540 with a grade of “C-” or better
Description: Two disorders that impact communication involve the sounds used for speech and the fluency of speech. Etiological factors, assessment techniques, and intervention principles used to manage speech sound and fluency disorders are addressed.

(TO) SLHS 3590 School Speech-Language Intervention
Credits: 3
Prerequisite(s): SLHS 1500 and SLHS 2890 with a grade of “C-” or better in each
Description: This course allows students to explore how speech and language disorders/differences affect school-age children. Students learn intervention methods designed to help children and adolescents with cognitive/linguistic and communication challenges succeed in school. Students observe children with communication disorders working with speech-language pathologists in school settings.

(TO) SLHS 3600 Diagnostic Audiology
Credits: 3
Prerequisite(s): SLHS 2530 with a grade of “C-” or better
Prerequisite(s) or Corequisite(s): SLHS 2530
Description: This course reviews acoustics of the auditory system and perception of acoustic stimuli. The focus is on anatomy and physiology of the auditory system, standard audiometric assessment, and peripheral and central auditory disorders.

(TO) SLHS 4500 Principles of Assessment and Intervention
Credits: 3
Prerequisite(s): SLHS 3590 or SLHS 4510 with a grade of “C” or better in each course
Description: This course examines professional issues and assessment/intervention principles and practices in speech-language pathology and audiology. This internship allows students to implement standards-based
instruction for children with communication disorders in educational settings and/or observe assessment/intervention methods in clinical settings.

**University Requirement(s):** Senior Experience

**(TO) SLHS 4510 Child Language Disorders**

**Credits:** 3  
**Prerequisite(s):** SLHS 2890 with a grade of “C” or better  
**Description:** This course examines child language disorders and the neurological, cognitive, environmental and sociocultural factors that contribute to them. Students are introduced to assessment and intervention strategies designed to enhance language/communication development in children with language disorders and their effects.  
**Field Trips:** Field based observations will be required.

**(TO) SLHS 4511 Neurogenic Language Disorders in Adults**

**Credits:** 1  
**Prerequisite(s):** SLHS 2890 with a grade of “C” or better  
**Prerequisite(s) or Corequisite(s):** SLHS 3511  
**Description:** This course examines acquired, brain-based language disorders in adults and their neuropathological sources. Communication disturbances and behavioral sequelae associated with a number of disorders, including aphasia, traumatic brain injury, and dementia, are analyzed. Students are introduced to clinical assessment techniques, as well as current developments in neurological rehabilitation.

**(TO) SLHS 4550 Speech-Language Pathology Assistant Methods**

**Credits:** 7  
**Prerequisite(s):** SLHS 2530, SLHS 2890, SLHS 3511, SLHS 3540, SLHS 3580, SLHS 3600, SLHS 4500, and SLHS 4510 each course with a grade of “C” or better; or permission of program coordinator  
**Prerequisite(s) or Corequisite(s):** SLHS 3620  
**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 will be required to submit a letter of intent, academic transcripts, and two letters of reference to the program coordinator for review and approval prior to registering for this course*

**(TO) SLHS 4610 Rehabilitative Audiology**

**Credits:** 3  
**Prerequisite(s):** SLHS 2890 and SLHS 3600 with a grade of “C” or better  
**Description:** This course considers the responsibilities of interventionists for children and adults with hearing loss. Students learn about individual variables that impact intervention outcomes, as well as components of rehabilitative audiology, such as counseling, hearing technology, and speech and language therapy.

**Department of Criminal Justice and Criminology**

**(M) CJC 3710 Women and the Law**

**Credits:** 3  
**Prerequisite(s):** GWS 1001 or CJC 1010 or Permission of Instructor  
**Description:** An examination of women’s legal rights under the American legal system and Colorado law. This
course deals with family law, Equal Employment Opportunity Acts, housing, credit and finance, welfare, social security, abortion, prostitution, rape, and the ERA. 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

**Department of English**

**(M) ENG 1008 Stretch Composing Arguments A**

**Credits:** 3

**Prerequisite(s):** Score of 50 or better on the Accuplacer sentence skills exam AND a secondary placement score of 75 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.

**(M) ENG 1009: Stretch Composing Arguments B**

**Credits:** 3

**Prerequisite(s):** Grade of 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 Introductory Writing Course

**(M) ENG 1020 Research and Argument Writing**

**Credits:** 3

**Prerequisite(s):** ENG 1010 or ENG 1009 with a grade of “C-” or better 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

**(M) ENG 1021 Honors Research and Argument Writing**

**Credits:** 3

**Prerequisite(s):** ENG 1010 or ENG 1009 with a grade of C- or better; 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 Intermediate Writing Course

**(R) ENG 2450 Women’s Literature**

**Credits:** 3

**Prerequisite(s) or Corequisite(s):** ENG 2000 or ENG 2100

**Description:** This course introduces students to women authors; to images of women in fiction, drama, and poetry; and to feminist literary criticism. Works by women of color are included. It has an historical perspective with most reading on British and United States women, particularly those writing in the eighteenth, nineteenth, and twentieth centuries. The focus will be on the ways in which literature by women in any tradition is affected by their gender.

**Gender Institute for Teaching and Advocacy**

**(M) GWS 3310 Women and the Law**

**Credits:** 3

**Prerequisite(s):** GWS 1001 or CJC 1010 or Permission of Instructor

**Description:** An examination of women’s legal rights under the American legal system and Colorado law. This course deals with family law, Equal Employment Opportunity Acts, housing, credit and finance, welfare, social security, abortion, prostitution, rape, and the ERA. 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

(M) GWS 3920 Women's Health Issues Gender Politics of Health

Credits: 3
Prerequisite(s): GWS 1001 or SOC 1010 or HES 1050 or PSY 1001
Description: This course will give students the opportunity to focus on health issues specific to women and the challenges historically faced by women in the health care arena. This course explores feminist, biological, psychological, and sociological factors in women's health within a global context. 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

(M) GWS 3940 Victim Advocacy for Survivors of Interpersonal Violence

Credits: 3
Prerequisite(s): GWS 1001 and six additional hours in Women's Gender, Women, and Sexualities Studies or HSP 1010 and six additional hours in Human Services
Description: Victim advocacy is both a professional career and area of study, yet it is so often overlooked in traditional academic programs. Individuals who wish to become victim advocates often receive training on the job and not in an academic setting. This class hopes to provide a foundation to the field to complement trainings provided by local victim advocacy agencies and police departments. The primary focus of this class is victim advocacy for survivors of sexual assault, relationship violence and stalking (interpersonal violence). This course provides students with the intellectual and practical skills to understand the issue and provide effective advocacy for survivors of interpersonal violence in a multicultural context. The course explores interpersonal violence in society today, critical cultural considerations, the experience of survivors, and reflections on providing effective advocacy and activism.

This is a challenging and rigorous course that asks students to critically think and write about the issues, systemic disparities, engage with difficult material and reflect on their own identities and privileges as it relates to the advocacy relationship. 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
Department of Health Professions

(M) HCM 3500 Health Care Research Methods

Credits: 3
Prerequisite(s): HCM 3150 and statistics OR ITP 3200 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.

(C) 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.

(M) ITP 3920 Women’s Health Issues: Gender Politics of Health

Credits: 3
Prerequisite(s): GWS 1001 or SOC 1010 or HES 1050 or PSY 1001
Description: This course will give students the opportunity to focus on health issues specific to women and the challenges historically faced by women in the health care arena. This course explores feminist, biological, psychological, and sociological factors in women’s health within a global context. 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.

Cross Listed Course(s): PSY 3920, SOC 3920, ITP GWS 3920

Note: Credit will be granted for only one prefix: PSY, SOC, GWS, or ITP

(M) 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

(M) RECR 1870 Introduction to Recreation and Park Services Recreation, Leisure, and Well-Being
This course provides an overview to recreation and park services, including career opportunities. Philosophy, history, leisure education, and the interrelationships among governmental, institutional, voluntary, and commercial/private recreation and park agencies are discussed.

(M) RECR 2210 Managing Outdoor Recreation Programs Nature, Leadership, and Outdoor Recreation

Credits: 3  
Description: This course provides an overview to managing outdoor recreation programs, including organized camping, adventure programs, trip programs, and challenge courses. Program development and administrative issues are highlighted. 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.

(N) RECR 3860 Self-Assessment for Outdoor Recreation Professionals

Credits: 2  
Prerequisite(s): RECR 1870, 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.

(N) RECR 3960 Instruction and Facilitation of Outdoor Recreation

Credits: 3  
Prerequisite(s): RECR 1870, RECR 2210  
Description: Students will explore what makes an effective instructor and facilitator of outdoor recreation. Of note, the course combines instructional theory, practical approaches, and developmental goals in a unified process for instructing and facilitating in the outdoors.

(N) RECR 4960 The Ethics of Recreation

Credits: 3  
Prerequisite(s): RECR 1870, 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.

Department of Human Services and Counseling

(M) FER 3980 Internship: Fire and Emergency Response

Credits: 13-6  
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.

(N) HSP 3550 Intimate Partner Violence
CUMfterwords: 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 on-going nature of IPV.

(M) HSP 3940 Victim Advocacy for Survivors of Interpersonal Violence

Credits: 3
Prerequisite(s): GWS 1001 and six additional hours in Women’s Gender, Women, and Sexualities Studies or HSP 1010 and six additional hours in Human Services
Description: Victim advocacy is both a professional career and area of study, yet it is so often overlooked in traditional academic programs. Individuals who wish to become victim advocates often receive training on the job and not in an academic setting. This class hopes to provide a foundation to the field to complement trainings provided by local victim advocacy agencies and police departments. The primary focus of this class is victim advocacy for survivors of sexual assault, relationship violence and stalking (interpersonal violence). This course provides students with the intellectual and practical skills to understand the issue and provide effective advocacy for survivors of interpersonal violence in a multicultural context. The course explores interpersonal violence in society today, critical cultural considerations, the experience of survivors, and reflections on providing effective advocacy and activism. This is a challenging and rigorous course that asks students to critically think and write about the issues, systemic disparities, engage with difficult material and reflect on their own identities and privileges as it relates to the advocacy relationship. 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

Department of Journalism and Media Production

(N) JMP 3001 Producing Social Documents

Credits: 1
Prerequisite(s): 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.

(M) JMP 3800 Audio Post-Production

Credits: 3
Prerequisite(s): JMP 2800 or Permission of Instructor
Description: Field recordings—those made on location outside of a controlled, studio environment—are a critical component to video and film production. This course explores the theory, required equipment, and
practical application of recording audio specifically for video productions. Students gain hands-on experience creating field recordings, documenting the process, and evaluating the postproduction options for each recording. 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.

(M) JMP 4455 Magazine Production

Credits: 3
Prerequisite(s): JRN JMP 2210 and JRN 3200; 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.

(M) 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. (Service Learning) This course may be taught as service learning

Department of Management

(M) 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 (service learning).

Department of Mathematical and Computer Sciences

(M) MTL 3600 Mathematics of the Elementary Curriculum

Credits: 3
Prerequisite(s) or Corequisite(s): MTH 2620 1610
Description: This course approaches mathematical concepts outlined in Colorado Model Content Standard for Mathematics (grades K-5) 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.

Department of Nursing

(M) NUR 4300 Leadership and Management in Professional Nursing Practice
Credits: 4
Prerequisite(s): NUR 3100, NUR 3150, NUR 3400, NUR 3700, NUR 3800, NUR 4000, NUR 4150
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.

(M) NUR 4850 Nursing Senior Experience

Credits: 5
Prerequisite(s): NUR 3100, NUR 3150, NUR 3400, NUR 3700, NUR 3800, NUR 4000, NUR 4150
Prerequisite(s) or Corequisite(s): NUR 4300
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

Department of Nutrition

(M) 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.

Department of Physics

(M) AST 3040 Modern Cosmology

Credits: 3
Prerequisite(s): AST 1040 or PHY 1000 or equivalent, and completion of General Studies requirements in Written Communication, Oral Communication, and Quantitative Literacy. 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

Department of Psychological Sciences

(M) PSY 3920 Women's Health Issues: Gender Politics of Health

Credits: 3
Prerequisite(s): GWS 1001 or SOC 1010 or HES 1050 or PSY 1001
Description: This course will give students the opportunity to focus on health issues specific to women and the challenges historically faced by women in the health care arena. This course explores feminist, biological, psychological, and sociological factors in women’s health within a global context. 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): GWS 3920, SOC 3920, ITP 3920

Department of Sociology and Anthropology

(M) SOC 3920 Women’s Health Issues Gender Politics of Health

Credits: 3
Prerequisite(s): GWS 1001 or SOC 1010 or HES 1050 or PSY 1001
Description: This course will give students the opportunity to focus on health issues specific to women and the challenges historically faced by women in the health care arena. This course explores feminist, biological, psychological, and sociological factors in women’s health within a global context. 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

Department of Speech, Language and Hearing Sciences

(TO/M) SLHS 1500 - Introduction to Communication Sciences

Credits: 3
Description: This course introduces students to typical communication across the lifespan, the relationship between culture and communication, and the impact of communication disorders on individual and family. Speech, language, and hearing anatomy, disorders, and intervention options are introduced. 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 II

(TO) SLHS 2530 Speech and Hearing Science

Credits: 3
Prerequisite(s): MTH 1110 or MTH 1112 or permission of instructor
Description: This course introduces acoustics of speech reception within the auditory system and acoustics of speech production within the vocal tract. A number of disorders interfering with normal sound transmission are introduced. Students learn about speech and hearing professionals, current technology for assessment and intervention, and strategies to enhance reception and production of acoustic energy.

(TO) SLHS 2890 Language Acquisition
Credits: 3  
**Prerequisite(s) or Corequisite(s):** ENG 2010 or ENG 3011 or SLHS 1500 or PSY 1800 or permission of instructor  
**Description:** This course allows students to investigate theories of language development and describe language developmental patterns in toddler, preschool and school-age children. The interrelationship between linguistic, cognitive and social competencies in communicative development will be explored. Students will gain knowledge concerning the diversity of normal communicative development found in a pluralistic society.

**TO SLHS 2990 Introduction to Health Communication**  
Credits: 3  
**Prerequisite(s):** CAS 1010 or CAS 1710 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, CAS or SLHS.*

**Cross Listed Course(s):** CAS 2990

**TO SLHS 3511 Anatomy and Physiology of Speech**  
Credits: 4  
**Prerequisite(s):** BIO 2310 and SLHS 2530 with a grade of “C” or better in both; or permission of instructor  
**Description:** This course provides students with a basic understanding of the structural organization (anatomy), function (physiology), and neural control of the structures used to produce speech, swallowing, respiration and related human behaviors. Students explore how anatomical and physiological deficits relate to communicative pathology. The course includes lecture and laboratory components and involves dissection.  
*Note: Credit will be granted for only one prefix: SLHS or BIO.*

**Cross Listed Course(s):** BIO 3511

**TO SLHS 3540 Clinical Phonetics**  
Credits: 3  
**Prerequisite(s) or Corequisite(s):** SLHS 2890  
**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.

**TO SLHS 3580 Speech, Sound and Fluency Disorders**  
Credits: 3  
**Prerequisite(s):** SLHS 2890 and SLHS 3540 with a grade of “C-” or better  
**Description:** Two disorders that impact communication involve the sounds used for speech and the fluency of speech. Etiological factors, assessment techniques, and intervention principles used to manage speech sound and fluency disorders are addressed.

**TO SLHS 3590 School Speech-Language Intervention**
Credits: 3  
**Prerequisite(s):** SLHS 1500 and SLHS 2890 with a grade of “C-” or better in each  
**Description:** This course allows students to explore how speech and language disorders/differences affect school-age children. Students learn intervention methods designed to help children and adolescents with cognitive/linguistic and communication challenges succeed in school. Students observe children with communication disorders working with speech-language pathologists in school settings.

**(TO) SLHS 3600 Diagnostic Audiology**

Credits: 3  
**Prerequisite(s):** SLHS 2530 with a grade of “C-” or better  
**Prerequisite(s) or Corequisite(s):** SLHS 2530  
**Description:** This course reviews acoustics of the auditory system and perception of acoustic stimuli. The focus is on anatomy and physiology of the auditory system, standard audiometric assessment, and peripheral and central auditory disorders.

**(TO) SLHS 4500 Principles of Assessment and Intervention**

Credits: 3  
**Prerequisite(s):** SLHS 3590 or SLHS 4510 with a grade of “C” or better in each course  
**Description:** This course examines professional issues and assessment/intervention principles and practices in speech-language pathology and audiology. This internship allows students to implement standards-based instruction for children with communication disorders in educational settings and/or observe assessment/intervention methods in clinical settings.

**University Requirement(s):** Senior Experience

**(TO) SLHS 4510 Child Language Disorders**

Credits: 3  
**Prerequisite(s):** SLHS 2890 with a grade of “C” or better  
**Description:** This course examines child language disorders and the neurological, cognitive, environmental and sociocultural factors that contribute to them. Students are introduced to assessment and intervention strategies designed to enhance language/communication development in children with language disorders and their effects.

**Field Trips:** Field based observations will be required.

**(TO) SLHS 4511 Neurogenic Language Disorders in Adults**

Credits: 1  
**Prerequisite(s):** SLHS 2890 with a grade of “C” or better  
**Prerequisite(s) or Corequisite(s):** SLHS 3511  
**Description:** This course examines acquired, brain-based language disorders in adults and their neuropathological sources. Communication disturbances and behavioral sequelae associated with a number of disorders, including aphasia, traumatic brain injury, and dementia, are analyzed. Students are introduced to clinical assessment techniques, as well as current developments in neurological rehabilitation.

**(TO) SLHS 4550 Speech-Language Pathology Assistant Methods**

Credits: 7  
**Prerequisite(s):** SLHS 2530, SLHS 2890, SLHS 3511, SLHS 3540, SLHS 3580, SLHS 3600, SLHS 4500, and SLHS 4510 each course with a grade of “C” or better; or permission of program coordinator  
**Prerequisite(s) or Corequisite(s):** SLHS 3620
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 will be required to submit a letter of intent, academic transcripts, and two letters of reference to the program coordinator for review and approval prior to registering for this course

(TO) SLHS 4610 Rehabilitative Audiology

Credits: 3
Prerequisite(s): SLHS 2890 and SLHS 3600 with a grade of “C-” or better
Description: This course considers the responsibilities of interventionists for children and adults with hearing loss. Students learn about individual variables that impact intervention outcomes, as well as components of rehabilitative audiology, such as counseling, hearing technology, and speech and language therapy.

Department of Theatre

(M) THE 3980 Professional Internship: Theatre

Credits: 1-12
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.